

JRC TECHNICAL REPORTS

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TECHNICAL REPORT

Final version

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8`YW`a`VYf`&\$`%`%`cb`h`Y`fYi`gY`c`Z`7`ca`a`]gg]cb`XcW`a`Ybhg`fC`>`@`'`'`\$`ž`%`("`%`&`&\$`%`ž`d`"`,`-`Ł`"9i`W`dh`ch`Y`fk`]gY`
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7`U`X`Ugž`A`"ž`K`c`Z`C`ž`H`U`h`c`ž`6`ž`A`]Ubcž`5`ž` ; U[`]UfX]ž`A`" `UbX`7`UdYUbgž`>ž`9i` ; DD`7`f]hYf]U`Zcf`Di`V`]W]GdUW]g`
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H\YfYZcfYž` Vm` W\ccg]b[` hc` di fV\UgY` dfcXi Vg` k]h` `ck Yf` Ybj]fcba YbhU`]a dUVgž` di V]WUi h\cf]h]Yg` Wb` a U_Y` Ub`]a dcfhUbh` VŁbhf]Vi h]cb` hc` fYXi V]b[` h\Y` X]fYVh` Ybj]fcba YbhU`]a dUVh` fYgi `h]b[` Zfca` h\Y]f` UVh]j]h]Yg` A cfYcj Yfž` Vmidfca ch]b[` UbX` i g]b[` ; DDž` di V]WUi h\cf]h]Yg` Wb` dfcj]XY` h\Y`]bXi ghfmi` k]h` fYU`]bWbh]j Yg` Zcf` XYj Y`cd]b[` [fYYb` hYV\bc`c []Yg` UbX` dfcXi Vg` =b` gca Y` gYVŁcfgž` di V]Wdi fV\UgYfg` VŁa a UbX` U` Uf[Y` g\UfY` cZ` h\Y` a Uf_Yh` fM` [" di V]W hfUbgdcfh` UbX` VŁbghfi W]cbž` \YU`h` gYfj]Wg` UbX` YXi W]h]cbŁ` UbX` gc` h\Y]f` XYV]g]cbg` \Uj Y` VŁbg]XYfUV` Y`]a dUVh` =b` ZUVž`]b` h\Y` UVcj Y` a Ybh]cbYX` 7ca a]gg]cbfj` VŁa a i b]W]h]cb` h\Y` WdUV]]mi h\Uh` di V]W dfcW fYa Ybh` \Ug` hc` g\UdY` dfcXi W]cb` UbX` VŁbgi a dh]cb` hfYbXgž`]bWYUgY` XYa UbX` Zcf` [fYYbYf` dfcXi Vg` UbX` gYfj]Wg` UbX` dfcj]XY`]bWbh]j Yg` Zcf` VŁa dUb]Yg` hc` XYj Y`cd` Ybj]fcba YbhU` Z]YbX`mi hYV\bc`c []Yg`]g` WUf`mYa d\Ug]gYX`

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7cbhfUW]dYfZcfa` UbW` WUi` gYgž` k` \]W` W\Wb` VY` i` bXYfghccX` Ug` Zc` ck` g`

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dfcZYgg]cbU` UV]j`]mž` YV\` bca`]WUbX` Z]bUbV]U` ghUbX]b[` UbX` hYW` b]W`
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Ug`_` gdYVZ]W` m` UVci` hi` h\Y]f` UV]`]mi` hc` Udd`m` Ybj`]fcba` YbhU`
a` UbU[` Ya` Ybh` a` YUgi` fYg` k` \Yb` W]ffm]b[` ci` hi` h\Y` V\` bhfUW`

HYW` b]W` GdYVZ]W]h]cbg` fHGL. HYW` b]W` gdYVZ]W]h]cbg` V\` bgh]hi` hY`
a`]b]a` i` a` V\` a` d]UbW` fYei`]fYa` Ybhg` h\Uh` a` i` gh` VY` a` Yh` VmiU` hYbXYfg`
` h` a` i` gh` VY`]b`_YX` hc` h\Y` V\` bhfUW]g` gi` V` YV\` a` UhhYf` fh\Y`]gi` V` YV\`
a` UhhYf` cZ` U` V\` bhfUW\`]g` UVci` hi` k` \Uh` [ccXž` gYfj`]W` cf` k` cf`_`]g`
]bhYbXYX` hc` VY` dfcW` fYX` " ` h` W\Wb` V\` bg]gh`]b` U` XYgW]dh]cb` cZ` h\Y`
dfcXi` V\` Vi` hi` W\Wb` U` gc` hU`_Y` h\Y` Zcfa` cZ` U` Z` bW]cbU` cf` dYfZcfa` UbW`
VUgYX` XYZ]b]h]cb` UbX` a` i` gh` bch` V\` bW]fb[`]bYfU` V\` fdcfUHY` dfUW]W]g`
Vi` h` cb` m` W` UfUW]f]gh]Vg` gdYVZ]W]h` hc` h\Y` dfcXi` V\` VY]b[` dfcW` fYX` "@]b`_`
hc` h\Y` gi` V` YV\` a` UhhYf` W\Wb` V\` bW]fb` Ubm` ghU[` Y` cZ` h\Y` dfcXi` W]g`]ZY`
W]W]ž`]bW] X]b[`]hg` gi` dd`m` W]U]bž` Yj` Yb`]Z` bch` cVj`]ci` g`]b` h\Y` Z]bU`
dfcXi` V\`]Y"ž` bch` dUfh` cZ` h\Y` a` UHYf]U` gi` VghUbW` cZ` h\Y` dfcXi` V\`
CZYfg` bch` V\` a` d`m]b[` k`]h` h\Y` hYW` b]W` gdYVZ]W]h]cbg` a` i` gh` VY`
fY` YV]X` " ` HYW` b]W` gdYVZ]W]h]cbg` UfY` bch` gV\` fYX` Zcf` Uk` UfX`
di` fdcgYg/` h\Ym` UfY` gh]V]midUgg#ZU]` fYei`]fYa` Ybhg`

5k` UfX` 7f]hYf]U` f57L. 5h` h\Y` Uk` UfX` ghU[` Yž` h\Y` V\` bhfUW]b[`
Ui` h\cf]mi` Yj` U`i` UhYg` h\Y` ei` U`]mi` cZ` h\Y` hYbXYfg` UbX` V\` a` dUfYg` V\` ghg`
7cbhfUWg` UfY` Uk` UfXYX` cb` h\Y` VUg]g` cZ` a` cgh` YV\` bca`]W` m`
UXj` UbhU[` Yci` g` hYbXYf` fA` 95H` " ` A` 95H`]bW] XYg` U` V\` gh` Y` Ya` Ybh` UbX` U`
k`]XY` fUb[` Y` cZ` ch\Yf` Z]W]cf]g` h\Uh` a` Um]bZi` YbW` h\Y` j` U`i` Y` cZ` U` hYbXYf`
Z` ca` h\Y` dc]bh` cZ` j`]Yk` cZ` h\Y` V\` bhfUW]b[` Ui` h\cf]mi`]bW] X]b[`
Ybj`]fcba` YbhU` UgdYVg` f]fi` fcdYUb` 7` ca` a`]gg]cbž` &\$%` *` L` " ` 9j` Yfmi`]b[`
h\Uh`]g` Yj` U`i` UHYX` UbX` gV\` fYX` Zcf` Uk` UfX` di` fdcgYg`]g` Ub` Uk` UfX`

W]hYf]cb" H\YgY`a UmfYZYf`hc`VXUfUWYf]gh]Vg`cZ`[`ccXg`cf`hc`h\Y`k`Um
]b`k` \]VX`gYfj`]VWg`cf`k`cf_g`k`]`VY`dYfZcfa`YX`f]b`h`]g`WUgY`h\Ymi
WUbbch`VY`j`Yf]Z]YX`Uh`h\Y`Uk`UfX`ghU`[`Y`g]bW`h\Ymi`fYZYf`hc`Z`hi`fY`
Yj`Ybhg`"H\YfYZcFY`h\Y`W]hYf]U`UfY`hc`VY`i`bXYfgtccX`Ug`Vta`a`]ha`Ybhg`
hc`WUffm`ci`h`gYfj`]VWg`cf`k`cf_g`]b`U`gdYVWZ]Wk`Umz`UbX`g\ci`X`VY`
a`cb]hcfYX#`Yf]Z]YX`Xi`f]b`[`h\Y`YI`YW`h]cb`cZ`h\Y`VebfUW`h`j`]U`VebfUW`
dYfZcfa`UbW`WUi`gYf]gk`"5g`hYVXb]WU`gdYVWZ]W]h]cbgz`Ugc`Uk`UfX`
W]hYf]U`a`i`gh`VY`]b`_YX`hc`h\Y`VebfUW`Vg`gi`V`YV`a`U`hYf`UbX`a`i`gh`
bch`VebWfb`[`YbYfU`VefdcfUHy`dfUW]VWg`Vi`h`cb`mi`VXUfUWYf]gh]Vg`
gdYVWZ]W`hc`h\Y`dfcXi`W`VY]b`[`dfcW`fYX`" @]b`_`hc`h\Y`gi`V`YV`a`U`hYf`
WU`VebWfb`Ubmi`ghU`[`Y`cZ`h\Y`dfcXi`W`Vg`]ZY!`W`W`Z`]bW`X]b`[`]hg`
gi`dd`m`VX`U]bž`Yj`Yb`]Z`bch`cVj`]ci`g`]b`h\Y`Z]bU`dfcXi`W`Z`]"Y"ž`bch`dUfh`
cZ`h\Y`a`U`hYf]U`gi`VghU`bW`cZ`h\Y`dfcXi`W`"5k`UfX`W]hYf]U`WU`b`VY`i`gY`
hc`gh]a`i`U`hY`UXX]h]cbU`Ybj`]fcba`YbhU`dYfZcfa`UbW`k`]h`ci`h`VY]b`[`
a`UbXU`hcfm`UbXž`h\YfYZcFYž`k`]h`ci`h`ZcfY`Wcg]b`[`h\Y`a`Uf`_Yh`Zcf`
dfcXi`W`g`bch`fYUW`]b`[`h\Y`dfcdcgYX`Yj`Y`cZ`dYfZcfa`UbW`"

7cbfUW`DYfZcfa`UbW`7`Ui`gYg`f]D7E. 7cbfUW`dYfZcfa`UbW`
WUi`gYg`UfY`i`gYX`hc`gdYVWZ]m`ck`U`VebfUW`a`i`gh`VY`WUff]YX`ci`h`"5g`
hYVXb]WU`gdYVWZ]W]h]cbgz`UbX`Uk`UfX`W]hYf]Už`Ugc`VebfUW`
dYfZcfa`UbW`WUi`gYg`a`i`gh`VY`]b`_YX`hc`h\Y`VebfUW`Vg`gi`V`YV`a`U`hYf`
UbX`a`i`gh`bch`VebWfb`[`YbYfU`VefdcfUHy`dfUW]VWg`Vi`h`cb`mi`h`cgY`
gdYVWZ]W`hc`h\Y`dfcXi`W`VY]b`[`dfcW`fYX`" @]b`_`hc`h\Y`gi`V`YV`a`U`hYf`
WU`VebWfb`Ubmi`ghU`[`Y`cZ`h\Y`dfcXi`W`Vg`]ZY!`W`W`Z`]bW`X]b`[`]hg`
gi`dd`m`VX`U]bž`Yj`Yb`]Z`bch`cVj`]ci`g`]b`h\Y`Z]bU`dfcXi`W`Z`]"Y"ž`bch`dUfh`
cZ`h\Y`a`U`hYf]U`gi`VghU`bW`cZ`h\Y`dfcXi`W`"H\Y`YVebca`]WcdYfU`hcf`
a`Um`bch`VY`fYei`YghYX`hc`dfcj`Y`Vta`d`]UbW`k`]h`h\Y`VebfUW`
dYfZcfa`UbW`WUi`gYg`Xi`f]b`[`h\Y`dfcW`fYa`Ybh`dfcW`Xi`fY`"7cbfUW`
dYfZcfa`UbW`WUi`gYg`UfY`bch`gVefYX`Zcf`Uk`UfX`di`fdcgYg`"7ca`d`]UbW`
k`]h`VebfUW`dYfZcfa`UbW`WUi`gYg`g\ci`X`VY`a`cb]hcfYX`Xi`f]b`[`h\Y`
YI`YW`h]cb`cZ`h\Y`VebfUW`h`h\YfYZcFY`U`Z`Yf`]h`U`g`VYYb`Uk`UfYX`" `h`
a`Um`VY`]b`_YX`hc`dYbU`h]Yg`cf`Vcbi`gYg`i`bXYf`h\Y`VebfUW`]b`cfXYf`hc`
Ybgi`fY`Vta`d`]UbW`"

:`cf`YUW`W]hYf]cb`h\YfY`]g`U`V`c]W`VYhk`YYb`hk`c`Yj`Y`g`cZ`
Ybj`]fcba`YbhU`Ua`V]h]cbž`k` \]VX`h\Y`VebfUW`]b`[`Ui`h`cf]`mi`WU`b`V`ccgY`
Zcfa`U`W`cfX]b`[`hc`]hg`dUfh]W`Uf`[`cU`g`UbX`#cf`VebghfU]bhg`"

7cfY`W]hYf]U`UfY`XYg][`bYX`hc`U`ck`YUgmi`Udd`]W]h]cb`cZ`; DDž`
ZcW`g]b`[`cb`h\Y`_Ymi`UfYUg`cZ`Ybj`]fcba`YbhU`dYfZcfa`UbW`cZ`U`
dfcXi`W`UbX`U]a`YX`Uh`_Yd]b`[`UXa`]b`]ghfU]h]Y`Veghg`Zcf`Vta`dUb]Yg`hc`
U`a`]b]a`i`a`"

**7ca`dfY`Ybg]j`Y`W]hYf]U`hU`_Y`]bhc`UW`zi`bh`a`cfY`UgdYW`g`cf` \][` \Yf`
Yj`Y`g`cZ`Ybj`]fcba`YbhU`dYfZcfa`UbW`ž`Zcf`i`gY`Vm`Ui`h`cf]h]Yg`h`Uh`
k`Ubh`hc`[`c`Z`fh\Yf`]b`gi`ddcfh]b`[`Ybj`]fcba`YbhU`UbX`]bbc]U]h]cb`
[`cU`g`"**

H\Y`XYj`Y`cda`Ybh`cZ`9I` ;`DD`W]hYf]U`U]a`g`hc`\Y`d`di`V`]WUi`h`cf]h]Yg`
Ybgi`fY`h`Uh`h`Y` [ccXgž`gYfj`]Wg`UbX`k`cf`_g`h`Ymi`fYei`]fY`UfY`
dfcW`fYX`UbX`YI`YV`hYX`]b`U`k`Um`h`Uh`fYXi`Wg`h`Y]f`UggcV]UHYX`
Ybj`]fcb`a`YbhU`]a`dUVWg`UbX`]g`ZcW`gYX`cb`h`Y`dfcXi`Wgfi`a`cgh`
g][`b]Z]W]bh`]a`dfcj`Ya`Ybh`UfYUgž`fYgi`h]b[`Zfca`h`Y`Wcgg!`VX`YV`
VYHk`YYb`h`Y`_Ym`Ybj`]fcb`a`YbhU`\`ch`gdch`UbX`a`Uf`_Yh`UbU`mg]g" `H`]g`
fYei`]fYg`Ub`i`bXYfgh`UbX]b[`cZ`Vta`a`cb`mi`gYX`dfcW`fYa`Ybh`dfUW]Wg`
UbX`dfcW`ggYg`UbX`h`Y`HU`]b[`cb`VcUfX`cZ`YUfb]b[`g`Zfca`UVWc`fg`
]bj`c`j`YX`]b`gi`WVW`ggZ`mZ`Z`]b[`Vtb`h`fUW]g"

:`cf`h`]g`fYUgcbž`h`Y`9i`fcdYUb`7ca`a`]gg]cb`\`Ug`XYj`Y`cdYX`U`dfcW`gg`
U]a`YX`Uh`Vf]b[`]b[`hc`[`Yh`Yf`Vch`h`YVX`b]W`UbX`dfcW`fYa`Ybh`YI`dYfhg`
hc`Vt`UH`U`VfcUX`VcXmicZ`Yj`]XYbW`UbX`hc`XYj`Y`cdž`]b`U`VtbgYbgi`g`
cf]YbhYX`a`UbbYfž`U`dfcdcgU`Zcf`dfYV]gY`UbX`j`Yf]Z]UV`Y`W]hYf]U`h`Uh`
W]b`VY`i`gYX`hc`dfcW`fY`dfcXi`Wg`k`]h`U`fYXi`W`X`Ybj`]fcb`a`YbhU`
]a`dUVW"

5`XYHU]YX`Ybj`]fcb`a`YbhU`UbX`a`Uf`_Yh`UbU`mg]gž`Ug`k`Y`Ug`Ub`
UggYgga`Ybh`cZ`dchYbh]U`]a`dfcj`Ya`Ybh`UfYUgž`k`Ug`Vt`bXi`WYX`k`]h`]b`
h`Y`Z`Ua`Yk`cf`_`cZ`h`]g`dfc`YV`UbX`k`Ug`dfYgYbhYX`]b`h`Y`DfY`]a`]bUfmi`
FYdcfh`cb`9I` ;`fYYb`Di`V`]W`DfcW`fYa`Ybh`f`DD`W]hYf]U`Zcf`Di`V`]W`
GdUW`A`U]bhYbUbW" `H`Y`fYdcfh`]g`Uj`U]UV`Y`Uh`
\`hd`##gi`gd`fcW`fWYWYi`fcdU`Yi`#Di`V`]V\$gdUW`Sa`U]bhYbUbW`#]bXYI`"\`h`
a`" `H`Y`a`U]b`Z]bX]b[`g`cZ`h`Y`fYdcfh`UfY`dfcj`]XYX`]b`h`Y`bYI`hgYV]cb"

6UgYX`cb`h`Y`Z]bX]b[`g`fYgi`h]b[`Zfca`h`Y`DfY`]a`]bUfmi`fYdcfhž`U`XfUZ`
Z]fgh`HYVX`b]W`FYdcfh`fHF`%`\$`UbX`W]hYf]U`dfcdcgU`k`Ug`dfcXi`W`X`
UbX`dfYgYbhYX`Uh`h`Y`Z]fgh`UX!\`cWk`cf_]b[`[`fci`d`a`YYh]b[`f]B`<`K` ;`%`
]b`GYj`]`Y`cb`%`Bcj`Ya`VYf`&\$%+"`=b`UXX]h]cb`hc`h`Y`Vt`a`a`Ybhg`
fYVW]j`YX`Xi`f]b[`h`Y`a`YYh]b[`ž`k`f]hYb`ZYXVUW`k`Ug`Vt`bj`YmYX`Xi`f]b[`
U`gi`VgYei`Ybh`Vt`bgi`hU]cb`dYf]cX" `H`Y`gYVt`bX`HYVX`b]W`fYdcfh`UbX`
W]hYf]U`dfcdcgU`fHF`&"`\$`k`Ug`dfcXi`W`X`HU`]b[`]bhc`UVt`i`bh`h`Y`]bdi`h`
fYVW]j`YX`]b`h`Y`Vt`i`fgY`cZ`h`]g`Vt`bgi`hU]cb`dfcW`gg" `5`gYVt`bX`UX!\`cW`
k`cf_]b[`[`fci`d`a`YYh]b[`k`Ug`cf[`Ub]gYX`Vm`a`YUbg`cZ`hk`c`]bhYfUW]j`Y`
k`YV]bUfg`]b`>`i`bY`&\$%`ž`hc`[`Yh`Yf`k`]h`U`dYf]cX`cZ`k`f]hYb`
Vt`bgi`hU]cb" `5`ZYXVUW`fYVW]j`YX`Zfca`ghU`Y\`c`XYfg`k`YfY`
]bW`XYX`]b`U`h`]fX`XfUZ`cZ`h`Y`HYVX`b]W`fYdcfh`UbX`W]hYf]U`dfcdcgU`
fHF`"\$`\$`k`\]W`k`Ug`fY`YUgYX`hc`ghU`Y\`c`XYfg`Zcf`h`Y]f`k`f]hYb`
Vt`a`a`Ybhg" `H`Y`Vt`a`a`Ybhg`cVHU]bYX`Zfca`h`Y`k`f]hYb`Vt`bgi`hU]cb`
dfcW`gg`UbX`h`Y`fYgdcbgYg`cZ`h`Y`>`7`fbYY`5bbYI`E`Zcfa`YX`h`Y`VUg]g`
cZ`h`Y`VX`Ub[`Yg`fYZYVWYX`]b`h`]g`]bU`fYdcfh`fbgYY`HUV`Y`%`&"`

%%A U]b`WXUb[Yg`]b`h`Y`W]hYf]U`dfcdcgU`

H`Y` a U]b` WXUb[Yg` h`Uh` h`Y` W]hYf]U` dfcdcgU` \Ug` i bXYf[cbY` Vta` dUFYX`hc`h`Y`gYVtbX`XfUZh`UfY`dfYgYbhYX`]b`HUV`Y`%"`

HUV`Y`%` A U]b`WXUb[Yg`fYZYVWYX`]b`h`Y`=G7`j`Yfg]cb`cZ`h`Y`HYVWb]WU`FYdcfh`

GYVW]cb#7f]hYf]cb`	7\Ub[Yg`]b`=G7`J`Yfg]cb`
7`YU]b[`dfcXi`VWg`UbX`gYfj`]Wg`	
7D7%"` 7`YU]b[` gYfj`]Wg`d`Ub`	H`Y` W]hYf]cb` \Ug` VYYb` XY`YhYX` Ug`]h`]g` fYXi`bXUbh` VYVWi`gY`]h` Xi`d`]W]hYg` h`Y` 9bj`]fcb`a`YbhU` A`U`U`[`Ya`Ybh` a`YUgi`fYg`]b`7`UdhYf`+"`
;`UfXYb]b[`dfcXi`VWg`UbX`gYfj`]Wg`	
Bc`WXUb[Yg`"	
A`UW`]bYfmdfcXi`VWg`UbX`gYfj`]Wg`	
HG`%"`9b[`]bY`9I` \Ui`gh` 9a`]gg]cbg`	H`Y`YI`d`UbUhc`fmbchY`cb`h`Y`HYVWb]WU`GdYVW]W]h]cb`\Ug` VYYb`Ua`YbXYX`hc`fYZYVW]5fh]WY`%\$f+L`cZ8]fYVW]j`Y` -`+`#` ,`#97z`5fh]WYg`'` (f+Lz`'` (fL`L`cf`'`),`fL`L`hc`'`),`fL`L`cZ` FY[`i`U]cb`f9I`L`&\$%`#%`&`,`z`UbX`5fh]WYg`%\$f(L`L`UbX`%L` cZ7ca`a`]gg]cb`8Y`Y[`UhYX`FY[`i`U]cb`f9I`L`&\$%)`#`*`z`cf` 5fh]WY`%`fL`L`hc`%`fL`L`cZ7ca`a`]gg]cb`8Y`Y[`UhYX` FY[`i`U]cb`f9I`L`&\$%`#`,`,)``"
HG`+"`5]f`dc`i`hUbh` Ya`]gg]cbg` dYfZcfa`UbW`	9I`FC`')`#J`\Ug`VYYb`fYa`cj`YX`Zcfa`h`Y`W]hYf]U` gdYVW]W]h]cb`"
HG`+"`5]f`dc`i`hUbh` Ya`]gg]cbg` dYfZcfa`UbW`	H`Y`YI`d`UbUhc`fmbchY`cb`h`Y`HYVWb]WU`GdYVW]W]h]cb`\Ug` VYYb`Ua`YbXYX`hc`fYZYVW]5fh]WY`%\$f+L`cZ8]fYVW]j`Y` -`+`#` ,`#97z`5fh]WYg`'` (f+Lz`'` (fL`L`cf`'`),`fL`L`hc`'`),`fL`L`cZ` FY[`i`U]cb`f9I`L`&\$%`#%`&`,`z`UbX`5fh]WYg`%\$f(L`L`UbX`%L` cZ7ca`a`]gg]cb`8Y`Y[`UhYX`FY[`i`U]cb`f9I`L`&\$%)`#`*`z`cf` 5fh]WY`%`fL`L`hc`%`fL`L`cZ7ca`a`]gg]cb`8Y`Y[`UhYX` FY[`i`U]cb`f9I`L`&\$%`#`,`,)``"
8]ghf]Vi`h]cb` dYfZcfa`UbW`cZ` gdfYUXYfg`f57`L`	H`Y`X]ghf]Vi`h]cb`dYfZcfa`UbW`cZ`gdfYUXYfg`]g`bc`cb[`Yf` Uj`U]UV`Y`]b`7`UdhYf`*`UbX`\Ug`VYYb`a`cj`YX`hc`h`Y` a`UW`]bYfmgYVW]cb`Ug`gdfYUXYfg`W]bbch`VY`Vtb]g]XYfYX` j`Y`]WYg`"
7D7`%`cb`h`Y` A`U]bhYbUbW`cZ`h`Y` a`cV]Y`a`UW`]bYfmi` YeI`]da`Ybh`fgYVW]cb`)`"&`)`L`	H`\]g`gYVW]cb`\Ug`VYYb`XY`YhYX`Ug`7D7`g`Zcf`j`Y`\]WYg`]bW]`XY`hmfYg`fYd`UW]a`Ybh`h`Uh`]g`bch`fY`Yj`Ubh`Zcf` Vta`dUW]gk`YYdYfg`UbX`gdfYUXYfg`5XX]h]cbU`mz`U`h`ci`[\` h`YfY`]g`Ubch`Yf`7D7`Zcf`i`Vf]W]b]hgz`Vi`h`h`Ym`UfY`cb`m`UfY` ch`Yf`hmd`Y`cZ`i`Vf]W]b]hg`UbX`Ug`h`YfY`]g`U`gdYVW]W]cbY` i`bXYf`h`]g`W]hY[`cfmz`]h`]g`bch`bYXXYX`Y`]h`Yf`"

& Gi a a UfmcZ`h`Y`DfY`]a]bUfmF Ydcfh`

&'%'DfcXi W; fci d`GWtdY`UbX`8YZ]b]h]cbg`

&'%'% GWtdY`

H\YfY`UfY`bc`9i fcdYUb`I b]cb`; fYYb`Di V`]WDFcW`fYa`Ybh`f9I` ; DD`W]hYf]U`cb`Di V`]WGDUW`A U]bhYbUbW`" `b`XYZ]b]b[`h\Y`dfcXi W [fci d`UbX`h\Y`gWtdY`Vtj`YfYX`Vm`h\Y`W]hYf]Uz`h\Y`Zc`ck`]b[`k`YfY`Vt`bXi`WYX`."

- 5` ghU_Y\c`XYf` gi`fj`Ym` H\]g` Ug_YX` ghU_Y\c`XYfg` h\fcI`[\`U`ei`Ygh]cbbU]fY`Zcf`h\Y]f`j`]Yk`g`cb`h\Y`dfcdcgYX`UW]j`]h]Yg`UbX`gWtdY`cb`h\Y`a`U]bhYbUbW`cZ`di`V`]WgdUW`g`"
- F`Y`g`Y`U`f`V`X`]bhc`YI`]gh]b[`Y[]g`Uh]cbz` ghU`b`X`U`f`X`g` UbX` W]hYf]U` H\]g`]bW`XYX`U`f`Y`j`]Yk`cZ`f`Y`Y`j`Ubh`9I`"Y[]g`Uh]cbz`U`f`Y`j`]Yk`cZ`b`Uh]cbU` ; DD` W]hYf]U` UbX` f`Y`Y`j` Ubh`U`V`Y`g` UbX` U` f`Y`j`]Yk`cZ`f`Y`Y`j` Ubh` ghU`b`X`U`f`X`g` UbX` [i`]X`Y`]b`Y`g`i`g`Y`X`V`m`h\Y`d`f`j` U`h`Y`g`Y`W`c`f`"
- 5` f`Y`j`]Yk`cZ`d`ch`Y`bh]U` XYZ]b]h]cbg` H\]g`dfcj`]X`Y`X`Ub`cj`Y`f`j`]Yk`cZ`h\Y`ghU]h]gh]W`UbX`h`Y`V`X`b]W`W]hY[cf]Y`g`z`gi`V`U`g`h`c`g`Y`]b`9I`"Y[]g`Uh]cbz`]bW`X]b[`h\Y`7ca`a`cb`DfcW`fYa`Ybh`J`c`W`V`i`U`f`m`f`7`D`J`E`Vt`X`Y`g`z`k`\]V`Vt`i`X`V`Y`i`g`Y`X`h`c`XYZ]b`Y`X]Z`Z`Y`f`Y`bh`dfcXi W [fci`dg`Zcf`h\Y`9I` ; DD` W]hYf]U`Zcf`DGA`"

7cbgYeI`Ybh`mz`h\Y`9I` ; DD`Zcf`Di`V`]W`GdUW`A`U]bhYbUbW`Vtj`Yfg`Zci`f`W]hY[cf]Yg`"

- 7`Y`Ub]b[`dfcXi`W`g`UbX`g`Y`f`j`]W`g`
- ;`U`f`X`Y`b]b[`dfcXi`W`g`UbX`g`Y`f`j`]W`g`
- J`Y`]W`Y`g`Zcf`di`V`]W`gdUW`a`U]bhYbUbW`"
- A`U`W`X]b`Y`f`m`Zcf`di`V`]W`gdUW`a`U]bhYbUbW`"

H\Y`gdY`W]Z]WUW]j`]h]Yg`Vtj`YfYX`i`b`X`Y`f`h\Y`g`WtdY`UfY`"

- 7`Y`Ub]b[`z`]b`W`X]b[`a`U`b`i`U`c`f`a`Y`V`X`U`b]W`g`k`Y`Y`d]b[`UbX`k`U`h`Y`f`Y`h`W`Y`U`b]b[`z`[f`U`Z]h]f`Y`a`c`j`U`z`Z`U`U`X`Y`W`Y`U`b]b[`z`]h`Y`f`f`Y`a`c`j`U`z`Y`h`W`
- G`b`c`k`f`Y`a`c`j`U`
- D`f`i`b]b[`z`h`f]a`a`]b[`z`d`U`b`h]b[`z`U`k`b`f`Y`d`U`W`a`Y`b`h`z`]f`f][`U`h]c`b`
- :`Y`f`h`]n`U`h]c`b`z`k`Y`Y`X`V`t`b`h`f`c`UbX`d`Y`g`h]V]X`Y`g`i`g`Y`

H\Y`gdY`W]Z]W`Y`e`i`]d`a`Y`b`h`Vtj`Y`f`Y`X`]b`W`X`Y`g`"

- J`Y`]W`Y`g`f`N`i`a`U`b`V`t`b`h`f`c`Y`X`c`f`U`i`h`c`b`c`a`c`i`g`k`Zcf`h\Y`h`f`U`b`g`d`c`f`h`c`Z`k`c`f`_`Y`f`g`UbX`YeI`]d`a`Y`b`h`z`UbX`a`U`h`Y`f]U`g`
- G`k`Y`Y`d`Y`f`g`z`g`d`f`Y`U`X`Y`f`g`UbX`g`h`f`Y`Y`h`W`Y`U`b]b[`j`Y`]W`Y`g`Zcf`k`]b`h`Y`f`c`d`Y`f`U`h]c`b`
- A`U`W`X]b`Y`f`m`i`g`Y`X`Zcf`W`Y`U`b]b[`UbX`[`U`f`X`Y`b]b[`f`U`k`b`!`a`c`k`Y`f`g`z`V`X`U]b`g`U`k`g`z`h`f]a`a`Y`f`g`Y`U`Z`V`t`Y`W`c`f`g`z`Y`U`Z`V`c`k`Y`f`g`z`Y`h`W`k`

: c`ck]b[` ghU_Y\c`XYfDj` fYVta a YbXUh]cbgž` h\Y` Zc`ck]b[` UWhj]h]Yg` UfY`
YI Wl XYX`Zca` h\Y`gVtdY.`

- FYd`UWVa YbhicZ`dUj Ya YbhUbx`a i b]VdU`Z fb]hi fY`
- FYdU]f]b[` cf` fYd`UWVa Ybh`cZ`]ff][Uh]cb` gmghYa` gž` Zci bhU]bgž` ghfYYh`
g][bgž`a i b]VdU`Z fb]hi fY`UbX`a YVX Ub]WV`Yei]da YbhfY"["ž`[UhYgk`
- A U]bhYbUbWV`cZ`gYk U[Y`
- DU]bh]b[`UbX`fYdU]bh]b[`UWhj]h]Yg`

&'%'& 8YZ]b]h]cbg`

5` Vta dfY\Ybg]j Y` UbU`mg]g` cZ` h\Y` j Uf]ci g` hYVXb]WV` WWhY[cf]Yg`]bWl XYX`
k]h]b` h\Y` 9i fcdYUb` ghU]gh]WV` gmghYa` k Ug` W]ff]YX` ci hi fb]YY` DfY`ja]bUfmi
FYdcfh` : c`ck]b[` U` fYj]Yk ž`]hi k Ug` VtbWl XYX` h\Uh` h\Y` a cgh` Uddfcdf]UhY`
gmghYa` hc` UbU`mgY` h\Y` ZYUhi fYg` cZ` h\Y` a U]bhYbUbWV` cZ` di V`]WgdUWV` gYVWcf`
]g` h\Y` 7ca` a cb` DfcW`fYa Ybh` JcWV`i `Ufmi f7DJ`k` H\Y` 7DJ`]g` YggYbh]U` Zcf`
h\Y` di V`]WdfcW`fYa Ybh`cZ` [ccXg`UbX`gYfj]Wg`k]h]b` h\Y` 9i fcdYUb` VtbhYI hi
U`h`ci [\ `]h]]g` bch`]bWl XYX` Ug` dUfhi cZ` h\Y` 9i fcdYUb` GhU]gh]WV` GmghYa`
f9GGk` =b` UXX]h]cb` hc` h\Y` fYVta a YbXUh]cb` cZ` h\Y` 9i fcdYUb` 7ca` a]gg]cb`
]bj]h]b[` h\Y` VtbhfUWV]b[` Ybh]h]Yg` UbX` Ui h\cf]h]Yg` hc` i gY`]hž` h\]g` VUgg]Z]W]h]cb`
a] [\ h` \ Y`d` hc` a YUgi fY` a cfY` UWV` fUHy` mi h\Y` g]nY` UbX` V` UfUWV`f]gh]Vg` cZ` h\Y`
a U]bhYbUbWV` cZ` di V`]WgdUWV`g` gYVWcf` h\Ub` h\Y` ch\Yf` hYVXb]WV` WWhY[cf]Yg`
k \]VX` UfY` a cfY` ZcW`gYX`cb` Vta a YfV]U` hfUbgUWV]cbg` H\Y` 7DJ` VUgg]Z]W]h]cb`
YbUV`Yg` a cfY` UWV` fUHy` Vt`Uh]cb` cZ` h\Y`]bZcfa Uh]cb` fY[]ghYfYX` cb` di V`]W
dfcW`fYa Ybhž` Vmi k \]VX` di V`]W` Ui h\cf]h]Ygž` gi VX` Ug` [cj Yfba Ybh`
XYdUfha Ybhg`cf` cWV` Ui h\cf]h]Ygž` di fVX` UgY` k cf_gž` [ccXg`cf`gYfj]Wg` Zca`
Vta dUb]Yg`

=hi UW]Yj Yg` h\]g` Vmi YghUV`]g\]b[` U` g]b[` Y` VUgg]Z]W]h]cb` gmghYa` Zcf` di V`]W
dfcW`fYa Ybh` U]a YX` Uh` ghU]bXUfX]g]b[` Vmi a YUbg` cZ` U` g]b[` Y` VUgg]Z]W]h]cb`
gmghYa` Zcf` di V`]WdfcW`fYa Ybhž` h\Y` hYfa` gi gYX` Vmi VtbhfUWV]b[` Ui h\cf]h]Yg`
UbX` Ybh]h]Yg` hc` XYgW]VY` h\Y` gi V` YVh` cZ` VtbhfUWV]gž` Vmi cZYf]b[` Ub` Uddfcdf]UhY`
hcc` hc` dchYbh]U` i gYfg` fVtbhfUWV]b[` Ybh]h]Yg`#Ui h\cf]h]Ygž` WbX]XUhYg` cf`
hYbXYfYfg`]b` VtbhfUWV] Uk UfX` dfcWVXi fYk` H\i gž` h\]g` VUgg]Z]W]h]cb` hcc`
Vtbg]ghg` cZ` U` a U]b` j` cWV`i `Ufmi Zcf` XYZ]b]b[` h\Y` gi V` YVh` cZ` U` VtbhfUWV]ž` UbX` U`
gi dd`Ya YbhUfmi j` cWV`i `Ufmi Zcf` UXX]b[` Z` fh\Yf`ei U`]h]h]j` Y`]bZcfa Uh]cb`

5g` h\Y` Z]fgh` ghYd`]b` h\Y` XYZ]b]h]cb` cZ` h\Y` gVtdY` cZ` h\Y` 9i` ; DD` W]hYf]U` Zcf`
Di V`]WgdUWV` A U]bhYbUbWV]ž` h\Y` Zc`ck]b[` Zci f` WWhY[cf]Yg` k YfY` dfcdcgYXž`
UbX` k \ YfY` fY`Yj Ubhž` k]h` Uddfcdf]UhY` 7DJ` WWhY[cf]Yg` H\YgY`]bWl XY.`

%` 7`YUb]b[` DfcXi Wg` UbX` 7`YUb]b[` GYfj]Wg`

U` 7`YUb]b[` GYfj]Wg`

=b` h\Y` DfY`ja]bUfmi fYdcfh` UbX` HF`%`\$ž` h\Y` hmdYg` cZ` di V`]WgdUWV`g` k \]VX`
g\ci `X` VY` hU`_Yb`]bhc` Vtbg]XYfUh]cb` UbX` XYZ]bYX` Ug` dUfhi cZ` h\Y` gVtdY` cZ`
WVUb]b[` gYfj]Wg` cZ` h\Y` 9i` ; DD` Zcf` Di V`]WgdUWV` A U]bhYbUbWV` k Ug` VUgYX`

cb`Ub`UbU`mg]g`cZ`h`Y`fYgdcbgYg`cZ`ghU`Y`c`XYfg`hc`h`Y`Z]fghi`ei`Ygh]cbbU]fY`
H`Y`fYgi`hg`]bX]W]hYX`h`Uh`h`Y`Zc`ck]b[`h`m`dYg`cZ`]bZ]Ughfi`Vh`fY`g`ci`X`VY`
V`bg]XYfYX`k`]h`]b`h`Y`gV`dY`cZ`WYUb]b[`gYfj`]Wg`

- GhfYYhgž`fcUXgž`Uj`Ybi`Yg`UbX`Vci`Yj`UfXg`
- G]XYk`U`_g`
- 6]_Y`UbYg`
- DUf_]b[`chg`
- DYXYghf]Ub`UfYUgž`dU`h`k`Umg`UbX`d`UnUg`
- I`bXYfk`Umg`
- GHU]fk`Umg`
- Di`V`]WZ`fb]hi`fY`UbX`ZU,`UXY`fbj`fZUW`U`gc`Uj`Y`hc`VY`V`bg]XYfYX`U`
hUf[`Yh`cZ`WYUb]b[`gYfj`]Wg`

:`c`ck]b[`h`Y`gi`[[`Ygh]cb`cZ`X]ZZYfYbh`ghU`Y`c`XYfgž`d`Un[`fci`bXg`UbX`di`V`]W`
gdcfhg`ZUW]h]Yg`UfY`YI`W`XYX`Zca`h`Y`gV`dY`cZ`h`Y`9I` ;`DD`Xi`Y`hc`h`Y`
V`a`d`YI`]m`cZ`h`YgY`hcd]Vg`-h`k`Ug`gi`[[`YghYX`hc`V`bg]XYf`h`Ya`Ug`gYdUfUH`
dfcXi`Vh[`fci`dg`

H`Y`fYZcfY`]b`HF`%`\$`h`Y`gV`dY`cZ`UW]j`]h]Yg`V`j`YfYX`k`]h`]b`WYUb]b[`gYfj`]Wg`
]bW`XY`

- A`Y`W`Ub]W`/`a`Ubi`U`gk`YYd]b[`cZ]g]XYk`U`_ž`V]_Y`UbYž`fcUX`fUgd`U`hž`
fcUXVYX`UbX`fcUXg]XY`fg`ci`XYfgž`W`fVgž`[`fYYb`UfYUg`
V`ffYgdcbX]b[`hc`7DJ`V`XY`-\$`%`\$`\$`\$`ž`ghfYYH`WYUb]b[`UbX`gk`YYd]b[`
gYfj`]Wg`
- @]hYf`fYa`cj`U`Zca`h`Y`[`fci`bX`
- 6]bgfi`]hYf`V`Y`W]cb`UbX`gcfh]b[.`V`ffYgdcbX]b[`hc`7DJ`V`XY`
-\$`-%`\$`\$`\$`V]b!`WYUb]b[`gYfj`]Wg`
- A`Y`W`Ub]W`/`a`Ubi`U`k`UhYf`Yh`WYUb]b[.`V`ffYgdcbX]b[`hc`7DJ`V`XY`
(`&`-`&`+`\$`ž`dfYggi`f]gYX`k`UhYf`WYUb]b[`UddUfUhi`g`UbX`(`&`-`&`+`(\$`!,`ž`
\\]`!`dfYggi`fY`WYUb]b[`UddUfUhi`g`
- :`U,`UXY`#gi`fZUW`WYUb]b[`
- ;`fUZ]h]`fYa`cj`U`V`ffYgdcbX]b[`hc`7DJ`V`XY`-\$`-`\$`\$`\$`ž`[`fUZ]h]`
fYa`cj`U`gYfj`]Wg`
- Gbck`UbX`]W`fYa`cj`U`Zca`g]XYk`U`_gž`V]_Y`UbYg`UbX`fcUXgž`
V`ffYgdcbX]b[`hc`7DJ`V`XY`-\$`&`\$`\$`\$`ž`gbck!`WYUf]b[`gYfj`]Wg`UbX`
-\$`*`\$`\$`\$`ž`]W!`WYUf]b[`gYfj`]Wg`
- 6YUW`WYUb]b[.`V`ffYgdcbX]b[`hc`7DJ`V`XY`-\$`,`\$`\$`\$`ž`VYUW`
WYUb]b[`gYfj`]Wg`
- 7`YUb]b[`cZ`Zci`bHU]bgž`U`Yg`UbX`dcbXg`
- 7`YUb]b[`i`d`UZhYf`bUhi`fU`k`YU`h`Yf`Yj`Ybhg`f]_Y`ghcfa`g`cf`YUj`mi`
fU]b#gbck`ZU`k`

=b`HF`%`\$`ž`Zc`ck]b[`h`Y`V`bgYbgi`g`UW]Yj`YX`k`]h`ghU`Y`c`XYfg`Xi`f]b[`h`Y`
gV`d]b[`d`UgY`cZ`h`Y`dfc`Y`Wž`gca`Y`WYUb]b[`gYfj`]Wg`fYa`U]b`ci`hg]XY`cZ`h`Y`
gV`dY`cZ`h`Y`9I` ;`DD`7f]hYf]U`Zcf`Di`V`]W`GdUW`A`U]bhY`bUbW`Xi`Y`hc`h`Y]f`
c`W]g]cbU`bUhi`fY`H`YgY`]bW`XY`[X]gUghYf`Ugg]ghU`bW`k`\\]W`]bW`XYg`
XYVf]g`fYa`cj`U`UbX`UZhYf`Yj`Ybh`WYUb]b[`fYj`Ybhg`cZ`U`gc`U`bUhi`fY`_Y`

VčbWfhgž' ZYghlj U'gž' ZU]fgž' YHŴĹ' g]bWV' h\Ymi Wbbchi VY' XYZ]bYX' Ug' fci h]bY' a U]bhYbUbWV' gYfj]WVg''

V''7`YUbj]b[`dfcXi Vhg`]bWm XY. .

- 5`!di fdcgY`WYUbyfg''
- Gi VghUbyWVg' Zcf' gbck' UbX']WV' fYa cj U'. ' fgU'h' UbX' gUbX! UbX! gU'h' a]l hi fY' Ě' WŴ`YX' [f]h'! 'i gYX' Zcf' fYa cj U' UbX' WŴ`WŴi a 'WŴ`cf]XY' f7U7`&Ł' i gYX' Ug' U'Xi gh'V]bXYf' Zcf' gdf]b['WYUbj]b[Ł'
- Ch\Yf' gi dd`Yg' #UWVWggcf]Yg#a YWUbj]WV' dUfhgž' Y"["ž' Vfi g\Ygž' fc`gž' YHŴ'

=b' HF &"\$' Zc`ck]b[' h\Y' ZYXVUW' Zfca' ghU_Y\c`XYfg' Xi f]b[' 5<K ; % a YYh]b[ž' UbX' Yi hYbg]j Y' fYj]Yk' cZ WYUbj]b[' UWŴj]h]Ygž' VYUWŴ' WYUbj]b[' k Ug' fYa cj YX' Zfca' h\Y' gVčdY' cZ WYUbj]b[' gYfj]WVg' Ug']h']g' U' gYUgcbU' UWŴj]hmi k \]WŴ']g' U'gc' \][\`mi XYdYbXYbhi cb' `cWŴ' VčbX]h]cbg" 6Yg]XYgž' h\YfY']g' bc' Yj]XYbWV' h\Uhi h\Y' UWŴj]hmi Ě' VYUWŴ' WYUbj]b[' !' bY[Uh]j Y'mi]a dUWVg' h\Y' Ybj]fcb a Ybh' A cfYcj Yfž' h\Y' a UWŴ]bYfmiYa d`cmYX' Zcf' h\Y' hkc' a U]b`mi gYX' Zcfa g' cZ h\]g' UWŴj]hmi fa YWUbj]WV' fU_]b[' cf' g]Zh]b[' fgWVYYb]b[Ł' UfY' a YWUbj]WV' XYj]WVg' k \]WŴ' UfY' UHŴUWŴYX' cf' a ci bhYX' hc' hfUWŴcf' cf' k U_! VY\]bX' g]Zh]b[' i b]h' HfUWŴcf! hck YX' g]ZhYfg' a cXY'g' UfY' U'gc' Uj U]UV'Y'' 5g' Yei]da Ybh']bWm X]b[' a UWŴ]bYfmi UbX' j Y\]WVg' UfY' X]gW ggYX']b' 7\UdhYf')' UbX' * 'fYgdYWŴj Y'nž' Zcf' h\YgY' fYUgcbgž']h'k Ug' bchiVčbg]XYfYX']b' HF &"\$''

=b' gi a a Ufmž' WYUbj]b[' gYfj]WVg' Včj YfYX' VmiHF &"\$']bWm XY. .

- A YWUbj]WV' / 'a Ubi U'gk YYd]b[' cZ]g]XYk U' ž' V]_Y' UbYž' fcUX' fUgd\U'hž' fcUXVYXŁ' UbX' fcUXg]XY' fg\ci `XYfgž' W' fVgž' [fYYb' UfYUgŁ'
- @]hYf' fYa cj U' Zfca' h\Y' [fci bX'
- 6]bgfi`]hYf' Vč`YWŴ]cb' UbX' gcfh]b[' .
- A YWUbj]WV' / 'a Ubi U'k UhYf' `Yh' WYUbj]b[ž' dfYggi f]gYX' k UhYf' WYUbj]b[' UddUfUhi g' UbXž' \][\!dfYggi fY' WYUbj]b[' UddUfUhi g'
- : U, UXY#gj fZUWV' WYUbj]b[' .
- ; fUZ]h] fYa cj U'
- Gbck' UbX']WV' fYa cj U' Zfca' g]XYk U' gž' V]_Y' UbYg' UbX' fcUXg''
- 7`YUbj]b[' cZ Zci bhU]bgž' U_Yg' UbX' dcbXg'
- 7`YUbj]b[' d' UZhYf' bUhi fU' k YUH\Yf' Yj Yb]hg' fl_Y' ghcfa g' cf' \YUj mi fU]b#gbcck' ZU`Ł'

=b' HF &"\$ž' WYUbj]b[`dfcXi Vhg' Včj YfYX']bWm XY. .

- 5`!di fdcgY`WYUbyfg''
- Gi VghUbyWVg' Zcf' gbck' UbX']WV' fYa cj U'. ' fgU'h' UbX' gUbX! UbX! gU'h' a]l hi fY' Ě' WŴ`YX' [f]h'! 'i gYX' Zcf' fYa cj U' UbX' WŴ`WŴi a 'WŴ`cf]XY' f7U7`&Ł' i gYX' Ug' U'Xi gh'V]bXYf' Zcf' gdf]b['WYUbj]b[Ł'

=b`h\Y`gUa Y`fYdcfhz`"A UWX]bYfmdUfhg`" k Ug`fYa cj YX`Zfca`h\Y`]ghicZch\Yf`
gi dd`]Yg` UbX` UWWggcf]Ygž` Y"["ž` Vfi g\Ygž` fc`gž` YhW` Ug` h\YgY` a Um VY`
Včbg]XYfYX` Ug` dUfh` cZ` h\Y` a UWX]bYfmd`dfcXi Vtg` UbX` gYfj]Wg` k \]W` UfY`
X]gW`ggYX`]b` 7\UdhYf`)" <YbWž`cb`m Vfi g\Ygž` fc`gž` YhWž` k YfY` Včbg]XYfYX`
i bXYf`"Ch\Yf`gi dd`]Yg`UbX`UWWggcf]Yg`"

&" ; UfXYb]b[`UbX`@UbXgWd]b[`GYfj]Wg`UbX`DfcXi Vtg`

: fca`h\Y` Z]fghi ghU_Y\c`XYf` ei Ygh]cbbU]fYž`]h`Ya Yf[YX`h\Uh`h\Y` Zc`ck]b[`
[fYYb`UfYUg`fYei]f]b[` [UfXYb]b[`UbX`UbXgWd]b[`gYfj]Wg`k \]W`g\ci`X`VY`
Včbg]XYfYX`]b`h\Y`gVčdY`UfY`."

- A Ub! a UXY` [UfXYbg`UbX`dUf_g`
- GhfYYhj`Y[YhUh]cb`

=h`]g` dcbgg]V`Y` hc` XYZ]bY` X]ZZYfYbh` VčbZ[i fUh]cbg` cZ` [fYYb` UfYUg` Vm
Včbg]XYf]b[`X]ZZYfYbh` j`Y[YhUh]cb` hmdc`c[]Yg` H\Y` Zc`ck]b[`WUgg]Z]WUh]cb`]g`
XYf]j` YX` Zfca` h\Y` 8i hW` 7f]hYf]U` Zcf` Gi ghU]bUV`Y` DfcW`fYa`Ybhg` cZ` ; fYYb`
GdUWgž` UbX`]g` Včbg]XYfYX` Uddfcd]U]hY` U`gc` Zcf` h\Y` 9I` ; DD` W]hYf]U` cb` h\Y`
gi V`YW`cZ`Di` V`]WGdUW` A U]bhYbUbW`"

- HfYYg` hfYYg` h\Uh`ghU]bX`cb`h\Y]f`ck`bž`]b` fck`g`cf`]b` ga` U` [fci`dgž`bch`
Ug`dUfh`cZ`U`ZcfYgh`cf`ga` U` W` ghYf`cZ`hfYYg`UbX`Vi`g\Yg`"
- 7`i`ghYf`cZ`hfYYg`UbX`Vi`g\Yg` Včbh][i`ci`g`UfYU`Včj`YfYX`Vm`d`UbhYX`
Vi`g\Yg`dcbgg]V`mik`]h`gW]hYfYX`hfYYg`"
- <YX[Yg`UbX`g\fi`Vg` Vi`g\Ygž`cb`h\Y]f`ck`bž`]b` ga` U` [fci`dg`cf`]b`
fck`gž`i`gi`U`m`WcgY`mia`U]bhU]bYX`Vm]h]a`a`]b[`cf`Wcg]b[`cZ`"
- D`Ubh`dU]hYg` dU]hYg`cZ`dYfa`UbYbh`UbX`Ubbi`U` \YfVUW`ci`g`d`Ubhg`
fi`gi`U`m`XYVčfUh]j`Yč`UbX`Vi`Vci`g`d`Ubhg`"
- @Uk`bg`g\cfh[fUgg`h\Uh]g`ZfYei`Ybh`mia`ck`YX`"
- F`ci` [\` [fUgg`UbX` \YfVU[Y` [fUgg`UbX`fci` [\` \YfVU[Y`h\Uh]g`a`ck`YX`
Uh`a`cgh`k`]W`dYf`mYUf`"
- 6Ub_g`UbX`k`UhYf` cdYb`k`UhYf`UbX`h\Y`UfYUg`h\Uh`VcfXYf`Xfm`UbX`"

Hk`c`]hYa`g`]bW`XYX`]b`h\Y` 8i`hW` 7f]hYf]U` \Uj`Y` VYYb`YI`W`XYX` Zfca`h\Y`
gVčdY`cZ`h\Y`9I` ; DD` W]hYf]U`Zcf`Di`V`]WGdUW` A U]bhYbUbW`" H\YgY`UfY`."

- : cfYghgž` XYZ]bYX` Ug` [Včbh][i`ci`g`UfYU`Včj`YfYX`Vm`hfYYg`h\Uh`a`Um`cf`
a`Um`bch` \Uj`Y`Vi`g\Yg`f]Uf[Yf`h\Ub`&) \$ \$a` &L`ž`YI`W`XYX`Zcf`bch`VY]b[`
a`Ub`a`UXY` [fYYb`UfYU`/`UbX`
- Gdcfhg`UbX`d`Um]b[`Z]Y`Xg`f[fUggk`XYZ]bYX` Ug` [[fUgg`Z]Y`Xg`df]a`Uf]mi`
]bhYbXYX` Zcf` gdcfhg`UbX`d`Um`UW]j`]h]Yg]ž` YI`W`XYX` Zcf` VY]b[`
UggcW]hYX`k`]h`di`V`]Wgdcfhg`ZUW]h]Ygž`dfYj`]ci`g`m`YI`W`XYX` Zfca`h\Y`
gVčdY`"

: cf` [YbYfU` `UbXgWd]b[`gYfj]Wgž` h\Y` ghUh]gh]W` W]hY[cf]Yg` i`gYX` Ug`
fYZYfYbW` VčffYgdc`bX` hc` ++`% \$\$\$\$` dUf_g` a U]bhYbUbW` gYfj]Wgž`
() %&+%ž` `UbXgWd]b[`k`cf_g` Zcf` [fYYb` UfYUgž` () %&+%ž` `UbXgWd]b[`
k`cf_` Zcf` dUf_gž` () %&+%ž` `UbXgWd]b[`k`cf_` Zcf` [UfXYbg` () %&+%ž`

`UbXgWd]b[`k cf_` Zcf` fccZ [UfXYbg/` ++` %\$\$\$ž` cfbUa YbHJ` UbX` d`YUgi fY`
[UfXYbg`a U]bhYbUbW`gYfj]Wg`

U"; UfXYb]b[`UbX`@UbXgWdY`GYfj]Wg`]bWl XY.`

- Dfi b]b[. `VčffYgdcbX]b[`hc`7DJ`VčXY`++` (%\$\$\$ž`HfYY`dfi b]b[`
- Hf]a a]b[. `VčffYgdcbX]b[`hc`7DJ`VčXY`++` (&\$\$\$ž`<YX[Y`hf]a a]b[`
- D`Ubh]b[`UbX` D`Ubh` UbX` hfYYg` fYd`UW`a Ybh` VčffYgdcbX]b[`hc`7DJ`
VčXY` ++` ' \$\$\$\$ž` :`cfU` X]gd`Um` gYfj]Wg/` \$` %&%%\$`" @j Y` d`Ubhgž`
Vi`Vgž` fcchgž` W`h]b[g` UbX` g]dg/` \$` ((\$\$\$\$ž` :`cfYghf`m` dfcXi`Wg/`
\$` ((%\$\$\$`" CfbUa YbHJ` d`Ubhgž` [fUggYgž` a`cggYg` cf`]W`Ybg/`
\$` () %\$\$\$ž` D`Ubhg/` \$` () %\$\$\$ž` 6YXX]b[`D`Ubhg/` \$` () %&\$\$\$ž` :`ck Yf`
Vi`Vg/` \$` () % \$\$\$ž` G`fi Vg/` \$` () &\$\$\$ž` HfYYg/` ++` % (%\$\$\$ž` ;`fUgg]b[`
gYfj]Wg/` ++` % \$\$\$\$ž`GYXX]b[`gYfj]Wg`
- : Yfh`]nUh]cb`
- K`YYX`Včbhf`c`UbX`dYgh]W`XYg`i`gY.`dUfh]U`m`VčffYgdcbX]b[`hc`7DJ`VčXY`
++` %\$\$\$ž`K`YYX!`WYUfUbW`gYfj]Wg`
- @Jk b`fYd`UW`a Ybh`
- A`Ubi`U`/`Ui`hca`UhYX`]ff][`Uh]cb`

V"; UfXYb]b[`dfcXi`Wg`]bWl XY.`

- Gc]`]a`dfcj`Yfg`
- CfbUa YbHJ`d`Ubhg`
- =ff][`Uh]cb`gmghYa`g`
- <YfV]W`XYg`UbX`dYgh]W`XYg`

H`Y`gVčdY`cZ [UfXYb]b[`dfcXi`Wg`Včbg]XYfYX`]b`HF`%`\$`]bWl`XYX`i`Vf]W`bhc`
c]g`6UgYX`cb`]bdi`hg`Zfca`gh`U`Y`c`XYfg`Xi`f]b[`h`Y`5<K`;%`a`Y`h]b[ž`UbX`U`
fYj`Yk`cZ [UfXYb]b[`dfcXi`Wgž`i`Vf]W`bhc]g`k`YfY`fYa`cj`YX`Zfca`h`Y`gVčdY`
cZ [UfXYb]b[`dfcXi`Wg`]b`h`Y`gYVčbX`h`V`b]W`fYdcfh`Ug`h`Y`m`UfY`
Včbg]XYfYX`Ug`U`dUfh`cZ`a`U`W`]bYfmdfcXi`Wg`UbX`gYfj]Wg`"

" " J`Y`]W`Yg`i`gYX`Zcf`Di`V`]W`GdUW`A`U]bhYbUbW`

- <i`a`Ub!`Včbhf`c`YX`j`Y`]W`Yg`
- Gk`YYdYfg`UbX`ghfY`Yh`WYUb]b[`j`Y`]W`Yg`fY"[`"ž`a`Y`W`Ub]W`Vfcca`gk`
- <][` \`dfYggi`fY`WYUbYf`j`Y`]W`Y`fk`UhYf`#g`UbX`
- Gbck`fYa`cj`U`j`Y`]W`Yg`fk`]h`d`ci`[` \`V`UXYg`UbX`gU`h`gdYfYUXYf`
- A`U]bhYbUbW`i`h`]m`j`Y`]W`Yg`Zcf`di`V`]W[`fY`Yb`gdUW`Yg`
- A`U]bhYbUbW`i`h`]m`j`Y`]W`Yg`Zcf`k`UhYf]b[`[`fY`Yb`gdUW`Yg`
- A`U]bhYbUbW`i`h`]m`j`Y`]W`Yg`Zcf`hf`Ub`gd`cfh]b[`[`cc`Xg`UbX`Vf`Ub`W`Yg`
- F`Ya`chY`Včbhf`c`YXž`Ui`h`b`ca`ci`g`cf`fc`V`ch]Wj`Y`]W`Yg`

8i f]b[' h\Y' 5<K ; % UbX' h\Y' V\bgI 'hU]cb' dYf]cX' Zc`ck]b[']h' ghU_Y\c`XYfg' UXj]gYX' cb' h\Y' bYYX' hc' X]gh]b[i]g\ VYhk YYb' V\ta dUW\ fgY`Z dfcdY`YX\k' gk YYdYfg' UbX' hfi W_ a ci bhYX' gk YYdYfg' VUgYX' cb' h\Y' XYZ]b]h]cb' Uj U]UV`Y']b' f9B%) (&- !% &\$ \$+& k]h]]b' h\Y' gV\tdY' cZ h\Y' 9I ' ; DD' DGA' W]hYf]U" 5WV\tdFX]b[' hc' h\Y' ghU]bXUfX\z' gk YYdYfg' W\bb' VY' WUgg]ZYX' Y]h\Yf' Ug' hfi W_ a ci bhYX' gk YYdYf' fgk YYd]b[' a UW\]bY\z' k \YfY' h\Y' gk YYd]b[' UH\UW\ a Ybhg' Z]l YX' cf' a ci bhYX' cb' U' ghU]bXUfX' j Y\]WY! W\Ugg]g\z' Y"["' hfi W_\k' cf' V\ta dUW\ fgY`Z dfcdY`YX\k' gk YYdYfg' fh\YgY' UfY' gk YYdYfg' \Uj]b[' U' gdYV\U' XYg][bYX' W\Ugg]g\z' k \YfY' h\Y' gk YYd]b[' UH\UW\ a Ybhg' UfY']bhY[fUH\YX\k'"

8YdYbX]b[' df]a Uf]m]cb' h\Y' bYh' j c`i a Y' W\UdUW\m\z' gY`Z dfcdY`YX' a UW\]bYg' UfY' Z fh\Yf' gi VX]j]XYX']bhc' f9\k' a Ul]! V\ta dUW\ gk YYdYf\z' f9\k' V\ta dUW\ gk YYdYf\z' fl \k' a]X]! V\ta dUW\ gk YYdYf\z' UbX' f(\k' a]b]! V\ta dUW\ gk YYdYf'" : cf' g]a]Uf' fYUgcbg\z' gdYV\U' di fdcgY' a chcf' j Y\]WYg' gi W\ Ug' gdfYUXYfg' k \]W\ UfY' Ugc' i bXYf' h\Y' gV\tdY' cZ 9i fcdYU]b' Y[]g]h]cb' Zcf' a UW\]bYfm' W\bbch' VY' V\bg]XYfYX' Ug' j Y\]WYg' Vi hUg' a UW\]bYg'"

GdfYUXYfg' UfY' a UW\]bYg' k \]W\ UfY' a ci bhYX' dYfa UbYbh]m]cb' hfi W_ W\Ugg]g' cf' Ug']bhYfW\Ub[YUV`Y' Yei]da Ybh' cb' hfi W_ W\Ugg]g' cf' `cUX' d`UhZcfa g' fh]ddYfg\k'" Cb`m] h\Y' V\ta V]bU]cb' cZ U' hfi W_ W\Ugg]g' UbX' U' dYfa UbYbh]m] a ci bhYX' gdfYUXYf' W\bb' VY' V\bg]XYfYX' Ug' U' gdYV\U' di fdcgY' j Y\]WY' UWV\tdFX]b[' hc' &\$ \$+&#(* #97" H\Y' dcfh]cb' cZ h\cgY' j Y\]WYg' cb' h\Y' 9I ' a Uf_Yh']g' Ygg' h\Ub' %\$i ' UbX' `]a]hYX' hc' U' ZYk' fY[]cbU' a Uf_Yhg'" H\Y' a U`cf]m]cZ gdfYUXYfg' UfY']bhYfW\Ub[YUV`m' Z]l YX' cbhc' hfi W_g'" H\YgY' V\ta V]bU]cbg' W\bbch' VY' V\bg]XYfYX' Ug' gdYV\U' di fdcgY' j Y\]WYg'" H\YgY' gdfYUXYfg' UfY' a UW\]bYg' UbX' k \Yb' h\Ym]UfY' Z]l YX' cb' U' ghU]bXUfX' hfi W_ `cUX' d`UhZcfa' h\Ym] UfY' V\bg]XYfYX' Ug' `cUX'" GdfYUXYfg' W\bbch' VY' V\bg]XYfYX' Ug' j Y\]WYg' VYW\i gY']b' 9i fcdY' gdfYUXYfg' UfY' Uj U]UV`Y' cb`m] Ug']bhYfW\Ub[YUV`Y' Yei]da Ybh' k \]W\]g' a ci bhYX' cb' U' hfi W_ W\Ugg]g']_Y' U' V\tbU]bYf' cf' `Ug\YX' cb' U' hfi W_ `cUX]b[' d`UhZcfa']_Y' U]bm]ch\Yf' `cUX'" =Z' Ub' Ui]]Ufm]Yb[]bY']g']bghU`YX' hc' Xf]j Y' h\Y' gdfYUX]b[' i b]h' h\Yb']h' a i gh' V\ta d`m]k]h' h\Y' Bcb! FcUX' A cV]Y' A UW\]bYfm] fBFAA\k' Yl \Ui gh' Ya]gg]cb' fY[i `Uh]cb' f9I \k' &\$%* #%* &, "'

H\YfYZcfY\z' Zcf' h\YgY' fYUgcbg\z' gY`Z dfcdY`YX' fV\ta dUW\k' gk YYdYfg' UbX' gdfYUXYfg' k YfY']bW\ XYX']bhc' h\Y' a UW\]bYfm]gYW\cb' f7\UdhYf') \k' cZ HF &"\$"' H\Y' gV\tdY' cZ j Y\]WY' UW\j]h]Yg' V\ej YfYX']b' HF &"\$']bW\ XYX. "'

- < i a Ub! V\bhfc`YX' j Y\]WYg'
- Hfi W_ a ci bhYX' gk YYdYfg' UbX' ghfYYh'WYUb]b[' j Y\]WYg'
- <] [\ `dfYggi fY' WYUbYf' j Y\]WY' fk UhYf#gUbX\k'
- Gbck' fYa' cj U' j Y\]WYg' fk]h' d`ci [\ `V`UXYg\k'
- A U]bhYbUbW\ i h']m]j Y\]WYg' Zcf' di V']W[fYYb'gdUWYg'
- A U]bhYbUbW\ i h']m]j Y\]WYg' Zcf' k UhYf]b[' [fYYb'gdUWYg'
- A U]bhYbUbW\ i h']m]j Y\]WYg' Zcf' hfUbgdcfh]b[' [ccXg' UbX' VfUbW\Yg'
- FYa' chY' V\bhfc`YX\z' Ui hc]bca' ci g'cf' fcVch]Wj Y\]WYg'

- (" A UW\]bYfm] gYX' Zcf' Di V']WGdUW\ A U]bhYbUbW\
- @Uk b! a ck Yfg' f]bW\ X]b[`Uk b' hfUW\cfg\k' UbX' gW\]Z]Yfg'

- 7\U]bgUk g'
- 6fi g\`gUk g'
- Ghf]a a Yfg'
- <YX[Y`hf]a a Yfg'
- Dfi bYfg`UbX`g]a]Uf`\UbX!cdYfUhYX`a UWX]bYg'
- @YUZVt`YVtcf]UbX`YUZV`ck Yfg'
- 5i hc!gVth\Yg`
- 5i hc!\cYg'
- FchUfm`W`hj Uhc]fg'
- 7ca dcgh`g\fyXXYfg`

:c`ck]b[`h\Y`ZYXVUW`Zfca`ghU_Y\c`XYfg`Xi f]b[`h\Y`5<K ; %`a YYh]b[`UbX`
]b` U][ba Ybh`k]h` h\Y` Bc]gY` 8]fYVh]j Y` &\$\$\$#%& #97` cZ h\Y` 9i fcdYUb`
 7ca a]gg]cbz`VtffYVh]cbg`\Uj Y`VYYb`a UXY`hc`h\Y`bUa Yg`Ugg][bYX`hc`h\Y`
 a UWX]bYfm`XYHU]YX`]b` HF%`\$` 7cbgYei Ybh`mz`h\Y`gYVt`bX`h`Vh]b]W` fYdcfh`
 ZYUhi fYXz`]b` UXX]h]cb` hc` h\Y`]bVh]g]cb` cZ`gY`Z`dfcdY`YX` gk YYdYfgz` h\Y`
 Zc`ck]b[`a UWX]bYfm`

- @Uk b!a ck Yfg' f]bVh]X]b[` k U`!VY\]bX` cf` f]XY!cb` [fUgg` W`h]b[`
- a UWX]bYgk`
- GWf]ZYfg`
- 7\U]bgUk g'
- 6fi g\`W`hYfg'
- ; fUgg`hf]a a Yf#[fUgg`YX[Y`hf]a a Yf`
- <YX[Y`hf]a a Yfg'
- Dfi bYfg`UbX`g]a]Uf`\UbX!cdYfUhYX`a UWX]bYg'
- @YUZVt`YVtcf]UbX`YUZV`ck Yfg'
- A chcf!\cYg'
- DXYXghf]Ub`Vtbfhc`YX`dck YfYX`h]`Yfg`
- G\fyXXYfg`#W]ddYfg`fZc`ck]b[`h\Y`XYZ]b]h]cb`Udd`]WV`Y`hc` [UfXYb]b[`
- Yei]da Ybh]Uj U]UV`Y`]b`h\Y` [i]XY`]bYg`Zcf`h\Y`Udd`]W]h]cb`cZ`h\Y`Bc]gY`
- 8]fYVh]j Y`&\$\$\$#%& #97`
- GY`Z`dfcdY`YX`cf`Vt`a dUW]gk YYdYfg'
- GdfYUXYfg'

6fi g\`gUk g' k YfY` fYa cj YX` Zfca` h\Y`]gh`cZ` Yei]da Ybh` VUgYX` cb` h\Y`
 fYVt`a a YbXUh]cbg` cZ` U` a U`cf` ghU_Y\c`XYf` UbX` Ugc` Ug` h\Ymi UfY` bch`
 Yl d`]Vh]m`]ghYX`]b` h\Y` Bc]gY` 8]fYVh]j Y` 5WVt`fX]b[` hc` ghU_Y\c`XYfgz` Ui hc!
 gVth\Yg` UfY`cZ]WU`m]W`YX`[g]W`Y`VUf`a ck Yfg]f]f]B`%&+` ' . &\$-\$- tZ` UbX`h\Y`
 Yei]da Ybh`]g` U` bch` U` [UfXYb`a UWX]bYfm`Vi`h`Ub`U[f]W`h`fU`a UWX]bYfm`
 H\YfYZcfYz`]h`k Ug` Ugc` Yl W`XYX` Zfca` h\Y` fYj]gYX` gVt`dY` cZ` h\Y` GYVt`bX`
 HYVh]b]W`F Ydcfh`

&'%'&'%' Gi a a UfmicZ'ghU_Y\c`XYfg`Wta a Ybhg`Zfca`
5<K ; &

GHU_Y\c`XYfg`gi [[YghYX`h\Uh`h\Y`gWtdY`cZ`a UWX`]bYfmdfcXi`Wtg`UbX`gYfj`]Wg`
g\ci`X`VY`YI`hYbXYX`hc`Wtj`Yf`Wtbgfhi`W]cb`UbX`fYbcj`Uh]cb`UW]j`]h]Yg`gi`W`Ug`
Wtbgfhi`W]cb`a`UWX`]bYfmUbX`Yei`]da`Ybh`]bW`X]b[`z`Vi`h`bch`]a`]hYX`hc`.

- YI`W]j`Uhcf`g`
- Vi`XcnYfg`
- a`cV]Y`WUbYg`
- g\cj`Y!`cUXYfg`
- fUa`a`Yfg`
- j`]VfUhc`fmd`UhYg`

ChYf`gi [[Ygh]cbg`k`YfY`h\Uh`"k`]bhYf`a`U]bhYbUbW`gYfj`]Wg`" g\ci`X`VY`
UXXYX`Ug`U`gYdUfUhY`gYfj`]W`UbX`h\Uh`gbck`fYa`cj`]b[`a`UWX`]bYg`fgY`Z`
dfcdY`YX`cf`UhtUWX`YXt`g\ci`X`VY`]bW`XYX`k`]h]b`h\Y`gWtdY`cZ`h\Y`
a`UWX`]bYfmdfcXi`Wtg`"

H\Y`gWtdY`cZ`h\Y`9I` ; DD`7f]hYf]U`Zcf`DGA` \Ug`VYYb`XYZ]bYX`]b`h\Y`
DfY`]a`]bUfm`FYdcfhz`Ug`k`Y`Ug`]b`chYf`fYdcfhg`dfYWX]b[`h\Y`H`]fX`
HYW`b]W`fYdcfh`=b`h\YgY`fYdcfhgz`Wtbgfhi`W]cb`UbX`fYbcj`Uh]cb`UW]j`]h]Yg`
\Uj`Y`VYYb`YI`W`XYX`Ug`h\YmX]ZZYf`g][`b]Z]W]bh]m]b`XYZ]b]h]cbz`hmdY`cZ`UW]j`]mi`
UbX`Yei`]da`Ybh`i`gYX`Zfca`DGA`k`\]W`hmd]W`miYa`d`cmg`[`UfXYb]b[`dfcXi`Wtg`
UbX`Yei`]da`Ybh` : cf`h\YgY`fYUgcbgz`h\Y`gi [[Ygh]cb`]g`bch`Wtbg]XYfYX`]b`h]g`
HYW`b]W`fYdcfh`fHF` "\$t`"

G]a`]Uf`mi`h\Y`gi [[Ygh]cb`hc`]bW`XY`"k`]bhYf`a`U]bhYbUbW`gYfj`]Wg`" Ug`U`
gYdUfUhY`gYfj`]W`]g`bch`Wtbg]XYfYX`Ug`h]g`]g`U`fYUXm`W]hYfYX`Zcf`k`]h]b`h\Y`
XYZ]bYX`gWtdY`cZ`h\Y`9I` ; DD`Zcf`DGA`fgYY`DfY`]a`]bUfm`FYdcfhz`k`\YfY`
k`]bhYf`a`U]bhYbUbW`gYfj`]Wg`UfY`]bW`XYX`]b`WUUb]b[`gYfj`]Wg`"5`gYdUfUhY`
gYW]cb`Zcf`h]g`UW]j`]mi`hmdY`k`ci`X`fYgi`h]b`U`fYdYh]h]cb`cZ`fY`UhYX`W]hYf]U`
UbX`k`ci`X`VY`fYXi`bXUbh`"

GY`Z`dfcdY`YX`gbck`V`ck`Yf`a`UWX`]bYg`\Ug`VYYb`]bW`XYX`k`]h]b`h\Y`]gh`cZ`
a`UWX`]bYfm`dfcXi`Wtg`Zc`ck`]b[`Ub`YI`hYbg]j`Y`fYj`]Yk`cZ`h\Y`a`UWX`]bYfm`
Ya`d`cmYX`Zcf`gbck`fYa`cj`U`k`\]W`fYj`YU`YX`h\Uh`h\Y`hk`c`a`U]b`mi`gYX`
Zcfa`g`UfY`gY`Z`dfcdY`YX`gbck`fYa`cj`]b[`a`UWX`]bYg`fY"[`" gY`Z`dfcdY`YX`
gbck`W`hYf!`V`ck`Yf`UbX`UhtUWX`YX`gbck`fYa`cj`]b[`a`UWX`]bYg`fY"[`" gbck`
d`ci`[\gz`gbck`W`hYfg`YhWt`k`\]W`UfY`Ug`]bhYfW`Ub[`YUV`Y`Yei`]da`Ybh`]b`
Zfcbh`cZ`ghU`bX`UfX`hfi`W]g`"

H\YfY`ZcfY`]b`h\Y`h]fX`HYW`b]W`fYdcfh`fHF` "\$t`z`h\Y`gWtdY`cZ`a`UWX`]bYfm`
i`gYX`Zcf`DGA`]bW`XYg`h\Y`Zc`ck`]b[`.

- @Uk`b]a`ck`Yfg`f]bW`X]b[`k`U`!`VY`\]bX`cf`f]XY!`cb`[`fUgg`W`h]b[`
a`UWX`]bYg`t`
- GW]f]Zyfg`
- 7`U]bgUk`g`

- 6fi g\`W hYfg`
- ; fUgg`hf]a a Yf#[fUgg`YX[Y`hf]a a Yf`
- <YX[Y`hf]a a Yfg`
- Dfi bYfg`UbX`g]a]Uf`\UbX!cdYfUH`YX`a UWX]bYg`
- @YUZVt`YVWcf`UbX`YUZV`ck Yfg`
- A chcf!\cYg`
- DYXYghf]Ub`Vtbfhc`YX`dck YfYX`h]`Yfg`
- G\`fYXXYfg`#W]ddYfg`fZc`ck]b[`h\Y`XYZ]b]h]cb`Udd`]WV`Y`hc`[UfXYb]b[`Yei]da Ybh`Uj U]UV`Y`]b`h\Y`[i]XY`bYg`Zcf`h\Y`Udd`]W]h]cb`cZ`h\Y`Bc]gY`8]fYV]j Y`&\$#\$%& #97Ł`
- GY`Z dfcdY`YX`cf`Vt`a dUW]gk YYdYfg`
- GdfYUXYfg`
- GY`Z dfcdY`YX`gbck `V`ck Yf`

&"& A Uf_Yh`5bU`ng]g`

H\Y` DfY`ja]bUfm`FYdcfh`f9gd]bcgUž`YH` U`"ž`&\$%+Ł`dfYgYbhg`h\Y`fYgi`hg`cZ`U`a Uf_Yh`fYgYUfW`cb`h\Y`g]h`Uh]cb`cZ`A U]bhYbUbW`cZ`Di`V`]WGDUW`g`gYVWcf`]b`h\Y`9i`fcdYUb`Vt`bH]`H`"

H\Y` a Uf_Yh` \Ug` VYYb` W`UfUWYf]nYX` UWVt`fX]b[`hc` a Uf_Yh` gY[a YbhUh]cb`f[Yc[fUd\`W]ž` hYVWbc`c[]W]ž` hUf[Yh` [fci`d`fY`UH`XŁž`k]h` Ub`cj`Yfj`]Yk`cZ`h\Y`fYgdYV]j`Y`dfcXi`W]g`UbX`gYfj`]W]gž`U`gc`]XYbh]Zm]b[`h\Y`_Ymi`a Ubi`ZUW]fYfg`#gYfj`]W]`dfcj`]XYfg`UbX`Vt`bgi`a Yf`[fci`dg`#dfcW`fYa`Ybh`Ybh]h]Yg" H\YfYZcfYž`Zc`ck]b[`h\Y`a`Yh`cXc`c[m]cZ`h\Y`a`Uf_Yh`UbU`ng]gž`h\Y`di`V`]W`gdUW`a`U]bhYbUbW`gYVWcf`\Ug`VYYb`XYgW]VYX`UWVt`fX]b[`hc`h\Y`j`c`i`a`Y`cZ`h\Y`di`V`]W`dfcW`fYa`Ybh`di`fW`UgYg`]b`9i`&`,`f`dfcXi`W]gYfj`]W]gi`dd`m`UbX`XYa`UbXŁ`UbX`]hg`a`Uf_Yh`ghfi`V]i`fY`"

A Uf_Yh` UbU`ng]g`]bX]W]hYg` h\Uh`h\Y`j`c`i`a`Y`UbX`bi`a`VYf`cZ`WYUb]b[`UW]j`]h]Yg`UbX`gYfj`]W]g`Vt`bfUWYX`Vm`h\Y`di`V`]WUi`h`cf]h]Yg`]b`YUW`Vt`i`bfmi`Zi`V]i`UhYg`]b`X]ZZYfYbh`mYUfgž`g]bW`h\Y`fUH`cZ`di`fW`UgY`]g`\`[\`m`XYdYbXYbh`cb`Vi`X[Yh`Vt`bghfU]bhg" 5bc`h\Yf`YggYbh]U`Z]bX]b[`]g`h\Uh`h\YfY`UFY`U`Uf[Y`bi`a`VYf`cZ`cW]`ga`U`UbX`a`YX]i`a`!g]nYX`YbhYfdf]gYg`UbX`U`ga`U`Yf`bi`a`VYf`cZ`Uf[Y`]bhYfbUh]cbU`Vt`a`dUb]Yg`k`]h`U`Uf[Y`g`UfY`cZ`h\Y`9i`fcdYUb`a`Uf_Yh` H\Y`UH`Yf`UFY`gdYV]U`nYX`]b`U`i`b]ei`Y`gY[a`Ybh`UbX`UFY`UV`Y`hc`dfcdcgY`U`k`]XY`UbX`Vt`cfX]bUH`YX`cZYfž`k`\]W`[YbYfUH`Yg`U`\`[\`Yj`Y`cZ`Vt`a`dYh]h]cb`"

&" ?Ymi9bj]fcb`a`YbH`U`<`chgdchg`UbX`=a`dfcj`Ya`Ybh`5fYUg`

H\Y`UH`Yf`dUfh`cZ`h\Y`DfY`ja]bUfm`FYdcfh`]g`X]j`]YX`]bh`Zci`f`W`UdhYfg`fYdfYgYbh]b[`h\Y`Zci`f`W]hY[cf]Yg`cZ`dfcXi`W]g`UbX`gYfj`]W]g`]bW]XYX`]b`h\Y`gVt`dY`cZ`Di`V`]WGDUW`A`U]bhYbUbW`"

H\Y`gYV]j]cbg`dfcj`]XY`Ub`Ybj]fcb`a`YbH`U`UbU`ng]g`cZ`h\Y`X]ZZYfYbh`W]hY[cf]Yg`cZ`dfcXi`W]g`UbX`gYfj`]W]g`h`fci`[\`U`fYj`]Yk`cZ`fY`Yj`Ubh`@75`gh`X]Yg" H\]g`

\Ug' YbUV'YX' h'Y']XYbh]Z]WWh]cb' cZ' h'Y' a U]b' Ybj]fcb' YbhU']a dUW'g' UbX' \chgdchg'cZ'X]ZZYfYbh'WWhY[cf]Yg'UW'cgg'h'Y]f'']ZY' VmWY''

&" "% 7`YU]b[`5W]j]h]Yg`

H'Y' UbU'm]g]g' cZ' WYU]b[`dfcXi W'g' g\ck YX' h'U' h'Y'm' UfY' UggcV]UHYX' k]h' a Ubm' Ybj]fcb' YbhU']a dUW'g' UbX' UfY' dchYbh]U'm' \UnUfXci g' hc' \i a Ub' \YU'h' " H']g']g' Xi Y' hc' h'Y' i gY' cZ' gi VghUbW'g' XYf]j YX' Z'ca' bcb! fYbYk UV'Y' gci fW'g' fY'' [" XYf]j YX' Z'ca' dYhfcW'Ya]W' ghfYUa gkz' UbX' h'Y' fY'YUgY' cZ' hcl]Wgi VghUbW'g' Ug' k Y'' Ug' k UghY' Z'ca' h'Y' a Ubi ZUW'i f]b[`dfcW'gg' fBcfX]W 9Vt' UVY'']b[ž' &\$%* Ułz' f' BcfX]W9Vt' UVY'']b[ž' &\$%* Vt''

F'Y'UH'YX' hc' h'Y' a Ubi ZUW'i f]b[`cZ' WYU]b[`dfcXi W'gž' h'Y'fY' UfY' U'gc']a dUW'g' Z'ca' h'Y' dfcXi W]cb' W'U]b' cZ' dUW'U[]b[" : cf' h'Y' Ygh]a U]cb' cZ' h'Y'gY']a dUW'gž' h'Y']ZY' VmWY' cZ' dUW'U[]b[`g\ci 'X' VY' Vtbg]XYfYX' Ug' k Y'' Ug' h'Y' X]ZZYfYbh'Yj Y'g'cZ'dUW'U[]b[`fA YXmbUž'YhU'ž' &\$%* t''

:]bU'mž' h'Y' a Ubi ZUW'i fY' cZ' 7U'W'i a 'A U[bYg]i a '5W'hUH'Y' f]7A 5t' \Ug' VYYb' Zci bX' hc' Vtbf]Vi hY' hc' h'Y' ghfcb[Yf' Ybj]fcb' YbhU']a dUW'g' UW'cgg' h'Y']ZY'VmWY' cZ' WYU]b[`dfcXi W'g' Xi Y' hc' h'Y' [fYU'h'Ua ci bh'cZ'YbYf[mUbX' k UHYf']bj c'j YX']b' h'Y' dfcXi W]cb' dfcW'gg' fF]h' cZZ' &\$%* t''

H'Y' UbU'm]g]g' cZ' h'Y' Ybj]fcb' YbhU' \chgdchg' g\ck YX' ghfcb['Ybj]fcb' YbhU']a dUW'g' fY'UH'YX' hc' h'Y' i gY' d\UgY' UbX' fY'YUgY' cZ' k UghY' k UHYf' ffi b! cZ'gk' k \]W' Vtbf]U]b' W'Ya]W'g']bhc' h'Y' Ybj]fcb' Ybh' Ug' XcW'a YbhYX']b' h'Y' dfY']a]bU'fmfYdcfH''

5bch'Yf' _Ym' Ybj]fcb' YbhU' \chgdch' fY'UH'YX' hc' h'Y' dfcj]g]cb' cZ' WYU]b[`gYfj]W'g']g' fY'UH'YX' hc' k UHYf' XYd'Yh]cb' Z'ca' dfcXi W' X]i h]cb' UbX' WYU]b[`cdYfU]cbg''

GhfYYh' WYU]b[`cdYfU]cbg' k YfY' U'gc']XYbh]Z]YX' Ug' Vtbf]Vi h]b[`g][b]Z]W]bh'mi hc' Z'Yg'k UHYf' Yi hfcd\]W]cbž' \i a Ub' hcl]W'mž' Z'Yg'k UHYf' YVt! hcl]W'mž' a Uf]bY' YVt! hcl]W'mž' UbX']cb]n]b[`fUX]U]cb' !' a cghmi fYgi 'h]b[`Z'ca' h'Y' [YbYfU]cb' cZ' gi X[Y' Xi f]b[`h'Y' cdYfU]cb''

&" "& ; UfXYb]b[`5W]j]h]Yg`

H'Y' dfcXi W]cb' cZ' gc]']a dfcj Yfg' cf' cfbUa YbhU' d'Ubhg' k \]W' UfY' i gYX' Zcf' [UfXYb]b[`UW]j]h]Yg' Vt' 'X' Vtbf]Vi hY' hc' W]a UHY' W'Ub[Yž' YVt! hcl]W'mi UbX' \i a Ub' \YU'h' Xi Y' hc' h'Y' Yi hfUW]cb' cZ' fUk' 'a UHYf]U'g'' DUfh]W' Uf'mi h'Y' Yi hfUW]cb' cZ' dYU'h' \Ug' VYYb' g\ck b' hc' \Uj Y' U'g][b]Z]W]bh]a dUW'cb' W]a UHY' W'Ub[Y'' DYU'h' \Ug' V]c'c[]W' cf][]b' UbX']g' U' \i [Y' W'fVcb' g]b_'' 8i Y' hc']hg' g'ck' fY[YbYfU]cb' fUHYž']h']g' Vtbg]XYfYX' bcb! fYbYk UV'Y' a UHYf]U'' => b' UXX]h]cbž' Xi Y' hc' h'Y' 'ck Yf' Ua ci bh'cZ' bi hf]Ybhg' YbhfU]bYX']b']h' Ug' Vt'a dUfYX' hc' ch'Yf' a UHYf]U'g' gi W' Ug' Vt'a dcghž' h'Y' i gY' cZ' dYU'h' g\ci 'X' VY' a]b]a]nYX' fgYY' DfY']a]bU'fmfYdcfH''

H\Y`dfcXi W]cb`VXU]b`cZ`cfbUa`YbhU`d`Ubhg`U`gc`Ug`ghfcb`[`Ybj`]fcb`a`YbhU`
]a`dUW]g`VYVWi`gY`cZ`h\Y`i`gY`cZ`dYgh]V]XYg`UbX`ZYfh`]nYfg`H\Y`dUW]U`[b`cZ`
h\Y`d`Ubhg`fYdfYgYbhg`Ubch\Yf`ZUV]cf`cZ`dc`i`h]cb`UbX`Ybj`]fcb`a`YbhU`]a`dUW]i`
VWi`gYX`Vmi`h\Y`i`gY`cZ`DJ`7`dchg`cf`dc`mg]mfYbY`d`UH\Ui`Zcf`h\Y`XY`]j`Yfmi`cZ`
d`Ubhg`

:]bU`mž`]b` h\Y` Yj`U`i`Uh]cb`cZ`Ybj`]fcb`a`YbhU`]a`dUW]gž`h\Y`XY`]j`Yfmi`UbX`
hfUb]gdcfh`cZ`h\YgY`dfcXi`V]g`Uj`Y`hc`VY`V]bg]XYfYX`Zcf`h\Y]f`V]bf]Vi`h]cb`hc`
[`fYYb`ci`gY`[`Ug`Ya`]gg]cbg`UbX`Z`Y`XYd`Yh]cb`6YVWi`gY`cZ`h\YgY`]a`dUW]gž`
h\Y`gY`V]cb`cZ`Ub`]bX][`Ybci`g#bUh]j`Y`hmc`c[`micZ`d`Ubhg`]g`Zci`bX`hc`Uj`Y`U`
ZUf`Ygg`]bhYbgY`Ybj`]fcb`a`YbhU`]a`dUW]ft`Y]g\Yfž`9`Hž`&\$-\$`-`Ł`

H\Y`DfY`]a`]bUfm`FYdcfh`]XYbh]Z]Yg`h\Y`i`gY`cZ`VX`Ya`]W]g`gi`VX`Ug`dYgh]V]XYg`
UbX`ZYfh`]nYfg`Ug`h\Y`a`U]b`chgdch`cZ`[`UfXYb]b[`UW]j`]h]Ygž`Ug`h\Ymi`V]i`X`
fYgi`h]b`XUa`U[`Y`hc`h\Y`Ybj`]fcb`a`Ybh`5bch\Yf`]a`dUW]fY`UH\X`hc`[`UfXYb]b[`
UW]j`]h]Yg`]g`k`UhYf`XYd`Yh]cb`Xi`Y`hc`h\Y`i`gY`cZ`]bYZZ]V]Ybh]ff][`Uh]cb`gm]ghYa`g`

&" " A UW]bYfmi

H\Y`dfcXi W]cb`d`UgY`Ug`VYYb`Zci`bX`hc`VY`cbY`cZ`h\Y`a`U]b`chgdchg`
UW]cgg`h\Y`]ZY`V]W]cZ`a`UW]bYfmi`Xi`Y`hc`a`i`h]d`Y`V]bV]fbg`

:]fghž`gYj`YfU`Zcgg`]VUgYX`a`UH]f]Ug`f]Y`d`Ugh]V]g`UbX`fi`VYf`V]a`dcbYbhgk`
h\Uh`fYei`]fY`Uf`[`Y`Ua`ci`bhg`cZ`YbYf`[`mXi`f]b[`h\Y]f`dfcXi`W]cbž`UfY`bYYXYX`
K`]h]b`h\Y`fUk`a`UH]f]Ugž`V]ddYf`UbX`]fcb`Uj`Y`h\Y`Uf`[`Ygh`]bX]j`]Xi`U`
]a`dUW]Zfca`U`]ZY`V]W]dYfgdYV]j`Y`6UH]fmi`dfcXi`W]cb`]g`Ugc`UggcV]UH\X`
k`]h`V]fV]bc`[`Yb]V]mi`UbX`i`a`Ub`hcl`]V]mž`cncbY`XYd`Yh]cb`dchYbh]U`UbX`
YV]hcl`]V]mi`Xi`Y`hc`h\Y`i`gY`cZ`U]nUfXci`g`gi`VghUbW]g`fBcfX]W9V]UVY`b[`ž`
&\$%`Łž`fGUa`UfUgž`7cbghUb]bYž`UbX`?mY`AY]ghYf`]b[`ž`&\$\$,`Ł`UbX`h\Y]f`
fY`UH\X`X]gdcgU`]ggi`Yg`

: i`Y`dfcXi`W]cb`fYgi`hg`]b`fYgci`fW`XYd`Yh]cbž`UbX`]hg`V]a`Vi`gh]cb`W]i`gYg`
[`fYYb`ci`gY`YZZYV]g`Xi`Y`hc`V]fVcb`X]cl`]XY`Ya`]gg]cbgž`UbX`]h`UZZYV]g`h\Y`
hfcdcgd`Yf]W]cncbY`UbX`i`a`Ub`U`U`h`Xi`Y`hc`b]hfc`[`Yb`cl`]XY`Ya`]gg]cbg`
5XX]h]cbU`mž`Z`Y`V]a`Vi`gh]cb`]b`]bhYfbU`V]a`Vi`gh]cb`Yb[`]bYg`Xi`f]b[`h\Y`
cdYfUh]cb`cZ`a`UW]bYfmi`[`YbYfUH]g`dUfh]W`UH`Ya`]gg]cbgž`k`U]W`UfY`cZ`
Ybj`]fcb`a`YbhU`V]bV]fb`

; UfXYb]b[`a`UW]bYfmi`Zcf`Di`V`]WGdUW`A`U]bhYbUbW`i`gYX`]b`Ybj`]fcb`a`Ybhg`
gi`VX`Ug`ZcfYghg`UbX`[`UfXYbg`V]i`X`VY`Ufa`Z`h`h\Y`Ybj`]fcb`a`Ybh`Xi`Y`hc`
h\Y`i`gY`cZ`i`Vf]W]bhg`]b`cdYb`gm]ghYa`gž`k`U]W`V]i`X`VY`cg]h`cf`X]fYV]mi`
Ya`]hYX`]bhc`h\Y`gi`ffci`bX]b[`g`DUfh]W`Uf`mi`Ufa`Z`UfY`hfUX]h]cbU`a`]bYfU`
VUgYX`i`Vf]W]bhg`h\Uh`Uj`Y`U`ck`fUH`cZ`V]cXY`[`fUXUV`]mi`UbX`W]b`V]bhU]b`
Ufa`Z`gi`VghUbW]g`fBcfX]W9V]UVY`b[`ž`&\$%`Łž`fK`[`\ha`Ubž`Yh`Už`%`-`-`Ł`

Bc]gY`dc`i`h]cb`Zfca`h\Y`cdYfUh]cb`cZ`a`UW]bYfmi`]g`Ugc`Ubch\Yf`]a`dcf]Ubh`
]ggi`Y`h\Uh`V]i`X`W]i`gY`]b`f]Yg`Vch`Zcf`h\Y`k`cf`_Yfg`UbX`dYcd`Y`H\Y`i`gY`cZ`
Y`V]f]W]mi`dck`YfYX`a`UW]bYg`Ug`V]bg]XYfUV`Y`UXj`UbHU`[`Yg`]b`cfXYf`hc`
fYXi`W]bc]gY`UbX`j`]VfUh]cb`fBcfX]W9V]UVY`b[`ž`&\$%`Ł`

&" "(J Y\]WYg'

H\Y' UbU'mj]g' cZ h\Y' Ybj]fcba YbhU' \ chgdchg' g\ck YX' h\Uh Zcf' Z' Y'! dck YfYX' j Y\]WYg' h\Y' a U]b' Ybj]fcba YbhU']a dUW'g' cWVf' Xi f]b[' h\Y' i gY' d\UgYz' UbX' UfY' ; < ; 'Ya]gg]cbgž' U]f' dc''i hUbh'Ya]gg]cbg' UbX' bc]gY'' H\Y' a Ubi ZUW'i f]b[' d\UgY']g' a cfY' fY'Yj Ubh' Zcf' Y'YWVf]W j Y\]WYg' k\YfY' h\Y' VUhhYfmi a Ubi ZUW'i f]b[']g' h\Y' a cgh]a dUW']b[' Vt'a dcbYbh''

H\Y' fYXi W]cb' cZ h\Y' Ybj]fcba YbhU']a dUW'i cZ Y'YWVf]Wj Y\]WYg' Xi f]b[' h\Y' i gY' d\UgYz' \ck Yj Yfz' ci h\k Y][\g' h\Y' bY[Uh]j Y' Ybj]fcba YbhU']a dUW'g' cZ h\Y' UXX]h]cbU' 'Ya]gg]cbg']b' h\Y' dfcXi W]cb' d\UgY'' 7'cgY'm fY'UhYX' hc' h\Y' i gY' d\UgY' UfY' h\Y' Ybj]fcba YbhU']a dUW'g' fY'UhYX' hc' h\Y' dfcXi W]cb' cZ YbYf[m] W]ff]Yfg' fl]ei]X' cf' [UgYci g' Z' Y'g' cf' Y'YWVf]W]mŁ'' H\Y' a U]b' Ybj]fcba YbhU']ggi Yg' cZ h\Y' gi dd'm V\U]b' cZ YbYf[m] W]ff]Yfg' UfY' ; < ; 'Ya]gg]cbg' UbX' U]f' dc''i hUbh'Ya]gg]cbg' f]F 7ž' &\$%* UŁ''

: fca ' h\Y']hYfUhi fY' fYj]Yk' W]ff]YX' ci h']b' h\Y' DfY']a]bUfmi F Ydcf]hž']h' gYYa g' h\Uh' \mVf]Xg' dfcj]XY' U' g][b]Z]W]bh' fYXi W]cb']b' cj YfU' ' Ybj]fcba YbhU']a dUW'g' Zcf' h\Y' X]ZZYfYbh' W]hY[cf]Yg' cZ j Y\]WYg' fl@[\h' 8i hmiJ Y\]WYg' ! '@8J ž' <YUj mi8i hmiJ Y\]WYg' ! <8J Ł' i gYX']b' i fVUb' Xi hmiW]WYg' f]F 7ž' &\$%* UŁ''

' 8fUZh' DfcdcgYX' 9I ' ; DD' W]hYf]U' Zcf' Ci hXccf' 7`YUbb]b['5VW]j]h]Yg`

' '%7f]hYf]U'dfcdcgU' Zcf'ci hXccf'WYUbb]b['dfcXi Vtg'

GVtdY'

H\]g' W]hY[cfm' Wtj' Yfg' h\Y' di fV\UgY' cZ' dfcXi Vtg' i gYX' Zcf' h\Y' WYUbb]b[' cZ' di V]WgdUW'g' cf' ci hXccf' i gY'' =h']bW] XYg' Ug' k Y'' h\Y' di fV\UgY' cZ' gi dd`]Yg' UbX' UWVYggcf]Yg' bYYXYX' hc' dYfZcfa' h\Y' hUg_''

DfcXi Vtg' fY'UhYX' hc' WYUbb]b[' gYfj]W'g' UfY' X]gh]b[i]g\YX']b' h\ fYY' W]hY[cf]Yg' Ug']XYbh]Z]YX']b' h\Y' DfY']a']bUfm'FYdcfh'UbX']bW] XY. '

- 5`!di fdcgY' WYUbb]b[]bXi gh]U' WYUbb]b['dfcXi Vtg' Zcf'ci hXccf' gYfj]W'g'
- Gi VghUbb]b[Zcf' gbck' UbX']W' fYa' cj' U'
- 6]bX]b['U[Ybhg' Zcf' Xi gh' Vtbfhc''

9ei]da' Ybh']bW] X]b[' a' UW\]bYfmi' UbX' j' Y\]WYg' UfY' X]gW' ggYX']b' 7\UdhYf')' UbX' *' fYgdYVW]j' Y'm'

' '%%' Ci hXccf' WYUbb]b['dfcXi Vtg'

F U]cbU'Y''

Ci hXccf' 7`YUbb]b['DfcXi Vtg'

7`YUbb]b['dfcXi Vtg' i gYX' dfcZYgg]cbU`m']b' ci hXccf' Ybj']fcb' a' Ybh' UfY' a' U]b`m' U`!di fdcgY' WYUbb]b[]bXi gh]U' WYUbb]b['dfcXi Vtg' UbX' Zcf' h\Y' di fdcgY' cZ' h\Y' 9I ' ; DD' W]hYf]U' Zcf' DGA' YbVt'a' dUgg' h\Y' Zc`ck]b[' ci hXccf' WYUbb]b['dfcXi Vtg. '

- 5`!di fdcgY' ci hXccf' WYUbb]b['dfcXi Vtg'
- ; `Ugg' UbX' k']bXck' WYUbb]b[]bXi gh]U' WYUbb]b['dfcXi Vtg'
- ; fUZZ]h] fYa' cj' U' dfcXi Vtg'

H\Y' UVcj' Y' UfY' Uj' U]UV`Y' Y]h\Yf']b' fYUXm'hc!i' gY' fF'HI' k' cf' i' bX]i' hYX' Zcfa' i' U]cbg'' 8YdYbX]b[' cb' h\Y]f' Zcfa' i' U]cbž' WYUbb]b['dfcXi Vtg' W]b' VY' WUgg]Z]YX']b' h\ fYY' W]hY[cf]Yg. '%&' UV\X' VUgYX' dfcXi Vtg' i' gYX' hc' fYa' cj' Y' \UfX' k' UhYf' XYdcg]hgž' U' [UYž' fi' gh' UbX' ch\Yf' cl']XU]cbž' & k' U' _U']' VUgYX' dfcXi Vtgž' hc' fYa' cj' Y' [fYUgYž' X]fh' cf' c']' UbX' ' k' gc' j' Ybh#dYHfc`Yi' a' VUgYX' XY' fYUgYfgž' k' \]W' UfY' UV`Y' hc' fYa' cj' Y' [fYUgY''

Ci hXccf' WYUbb]b['dfcXi Vtg' UfY' Ubh]V]dUhYX' hc' VY' Udd`]YX' hc' U' k']XY' j' Uf]Yhmi' cZ' gi fZUW'g' XYhU]YX' k']h\]b' h\Y' gVtdY' cZ' WYUbb]b[' gYfj]W'g' cZ' h\Y' DGA' 9I ' ; DDž' Y'' ["ž' ZUWXYg' WYUbb]b[']bW] X]b[' [fUZZ]h] fYa' cj' U' ž' YI' hYfbU' WYUbb]b[']b' dUj' YX' UfYUgž' a' U]bhYbUbW' UbX' WYUbb]b[' cZ' ch\Yf' di' V]WgdUW' Y'Ya' Ybhgž'

YHw' H\YgY' gi fZJW'g' WUb' VY' a UXY' Zfca' 'a UHyf]U'g' gi W\ Ug' ghYY'ž' U' i a]b]i a ž
VčbWYhY' UbX' d' Ugh]Vž' cf' U' Vča V]bUh]cb' cZ' gYj YfU' 'a UHyf]U'g''

CbY' cZ' h\Y' ghfcb[' Ybj]fcb a YbH' ' ja dUW'g' fY' UHYX' hc' h\Y' i gY' cZ' WYUb]b['
dfcXi Vhgž']g' fY' UHYX' hc' k UHyf' XYd' Yh]cb' Zfca' 'dfcXi W\ X]i h]cb' UbX' WYUb]b['
cdYfUh]cbg'' => b' UXX]h]cbž' h\Y' i gY' d\UgY']b' WYUb]b[' gYfj]W'g' Včbhf]Vi hYg'
g][b]Z]Wbhm' hc' ZYg\k UHyf' Yi hcd\]W]h]cbž' \i a Ub' hcl]V]mž' ZYg\k UHyf'
YVčhcl]V]mž' a Uf]bY' YVčhcl]V]m' UbX']cb]n]b[' fUX]Uh]cb'' H\YgY' ja dUW'g' UfY'
a cghm'fY' UHYX' hc' gi X[Y' dfcXi W]cb' Xi f]b[' ghfYYh' WYUb]b[' cdYfUh]cbg''

H\Y' Ua ci bh' cZ' k UghYk UHyf' dfcXi W\X' UZHyf' ghfYYh' WYUb]b[' WUb' VY'
g][b]Z]Wbhtž' UbX']h' XcYg' bch' U'k Umg' YbX' i d']b' h\Y' di V']W' k UghY' k UHyf'
hfYUha Ybh'gmghYa ''

7' YUb]b[' dfcXi Vhg' k]'' U'k Umg' VY' fYei]fYX' Xi f]b[' WYUb]b[' cdYfUh]cbg'' Hc'
a]b]a]nY' h\Y]f' ja dUW' cb' h\Y' Ybj]fcb a Ybhtž']h']g' YggYbh]U' h\Uh' h\cgY' k]h'
h\Y' a]b]a U' Ua ci bh' cZ' hcl]W'gi VghUbW'g' UfY' Ya d' cmYX']b' U' dfcZYgg]cbU'
a UbbYf'' 9Vč' UvY' YX' WYUb]b[' dfcXi Vhg' \Uj Y' Ygg' ja dUW' cb' h\Y'
Ybj]fcb a Ybh' Ug' h\Ym' Vča d' m'k]h' U' ghf]W' gYh' cZ' ' ja]h]b[' W]hYf]U' fY' Uh]b[' hc'
bi a Yfci g' Ybj]fcb a YbH' ' UgdYVhg']bW' X]b[ž' *inter aliaž* h\Y' hcl]V]m' UbX'
XY[fUXUV]]m' cZ' h\Y' Včbgh]h' Ybh' gi VghUbW'g' UbX' h\Y' gi ghU]bUV' Y' Yi hfUW]cb'
cZ' fUk' 'a UHyf]U'g'' => b' UXX]h]cbž' di fV\ Ug]b[' WYUb]b[' dfcXi Vhg' Yei]ddYX' k]h'
fYVča a YbXYX' Xcg]b[' gmghYa g' WUb' \Y' d' fYXi W' c] Yf! Xcg]b[ž' k \]W\ U'gc'
Včbhf]Vi hYg' hc' h\Y]f']Z' W\WY' Ybj]fcb a YbH' ' ja dUW''

5' fYj]Yk' cZ' HmdY' = YVč' UvY' g' k \]W\ \Uj Y' W]hYf]U' Zcf' ci hXccf' WYUb]b['
dfcXi Vhg' g\ck YX' h\Uh' U' cZ' h\Ya' gYh' fYei]fYa Ybhg' cb' hcl]V]m' UbX' \Ufa' hc'
\YU' hž' XY[fUXUV]]m' UbX' Uei Uh]W' hcl]V]mž' ZUa a UV]]mž' YHw' FY[i' Uh]cb'
f97Ł' Bc' %&+&#&\$\$, 'cb' WUgg]Z]W]h]cbž' UvY']b[' UbX' dUW' U[]b[' cZ' gi VghUbW'g'
UbX' a]i' hi fYg' fH\Y' f7 @D' FY[i' Uh]cb]f' Včj Yfg' h\YgY' W\ UfUWYf]gh]Vg' k \]W\ UfY'
UXXfYggYX']b' h\Y' W]hYf]cb' fHG%Ł' d' fcdcgYX' Zcf' U' di fdcgY' ci hXccf' WYUb]b['
dfcXi Vhg' hc' VY' i gYX' VmdfcZYgg]cbU'g''

' '%%'% Gi a a UfmcZ'ghU_ Y\ c`XYfg'Vča a Ybhg'Zfca '
5<K ; &

5' ghU_ Y\ c`XYf' Uf[i YX' h\Uh']h']g' bYW'ggUfm' hc']XYbh]Zm' gdYV]Z]W' fYghf]WYX'
\UnUfX' ghU]hYa Ybhg' Zcf' Z]bU' dfcXi Vhg' k]h' ci h' Ub' =GC' HmdY' = YVč' UvY''
Ch\Yfg' Včbg]XYfYX' h\Y' dYfW'bhU[Yg' Uh' Vch' h\Y' VčfY' UbX' Vča dfY\Ybg]j Y'
'Yj Y' c'k' UbX' UXj cW]hYX' Zcf' \][\Yf' dYfW'bhU[Yg' f* \$i' Uh' h\Y' VčfY' UbX' , \$i'
Uh' h\Y' Vča dfY\Ybg]j YŁ'' => b' UXX]h]cb' hc' h\]gž']h' k Ug' gi [[YghYX' h\Uh' U'
VčbhfUW' dYfZcfa UbW' WUi gY' VY' UXXYX' Ug']h']g' d' cgg]V' Y' hc' di fV\ UgY'
WYUb]b[' dfcXi Vhg' Zfca' 'U' gi dd']Yf' Xi f]b[' h' c' hc' Zci f' mYUfg''

H\Y' \UnUfX' ghU]hYa Ybhg' cZ' h\Y' Z]bU' dfcXi W\ WUgg]Z]W]h]cb' \Uj Y' VYYb' U'][bYX'
k]h' h\Y' cbYg' Včj YfYX' Vm' 5fh' '*''*'' UbX' '*'' + 9l' 9Vč' UvY' ' FY[i' Uh]cb''

Ci hXccf' WYUblb['dfcXi Vtg' UfY' [YbYFU`mighfcb[Yf']b' hYfa g' cZ Zcfa i `Uh]cb' h\Ub' cfX]bUfm#]bXccf' WYUblb['dfcXi Vtg' k]h' h\Y']a d`]WU]cb' h\Uh' h\Ym UfY' dchYbh]U`ma cfY' hcl]WUbx' Ygg' V]cXY[fUXUV'Y' h\Ub' h\Y' `UHYf'" 5b']bXYI' cZ h\Y' XY[fYY' cZ hcl]W]mi cZ Ubm WYUblb['dfcXi Vtg']g' h\Y' j U'i Y' cZ h\Y' W]h]W' X]i h]cb' j c'i a Y' f78J E'" H\Y' 78J']g' U' h\YcfYh]W'] U'i Y' h\Uh' HU_Yg' UWV' i bh' cZ h\Y']bX]j]Xi U' gi VghUbWV' V' fcb]W hcl]W]mi UbX' XY[fUXUV']]mi]b' h\Y' Ybj]fcb' a Ybh'" HG% V' i `X' h\i g' VY' VYHYf' Zcfa i `UHYX' VUgYX' cb' h\Y' 78J' j U'i Yg' Zcf' ci hXccf' WYUblb['dfcXi Vtg'" <ck Yj Yfz' U' fyj]Yk' cZ =GC' hmdY' = YV' U' VY' g' fbY' HUV' Y' %&']bX]W]hYg' h\Uh' h\Ym Xc' bch UXXfYgg' h\Y' gV' dY' cZ ci hXccf' WYUblb['dfcXi Vtg' V' j YfYX' k]h']b' h\Y' 9I' ; DD' W]hYf]U' Zcf' DGA' z' Ug']bX]W]hYX' Vmi h\Y' 78J' j U'i Yg' XcW' a YbhYX']b' h\Y' a " 5XX]h]cbU`n' h\Y' 6'i Y' 5b[Y' UbX' h\Y' 9I' 9V' U' VY' W]hYf]U' UfY' cb' mi Udd']WUV' Y' hc']bXccf' dfcXi Vtg'" H\Y' BcfX]W]Gk Ub' W]hYf]U' Zcf' " =bXi ghf]U' WYUblb['UbX' XY[fYUg]b['U[Ybhg']bW' XYg' gc' j Ybh VUgYX' WYUblb[fF HI' E' UbX' [fUZZ]h' fYa' cj U' dfcXi Vtg' k \]W' UfY' fY' Yj Ubh' hc' h\Y' gV' dY' cZ h\Y' 9I' ; DD' W]hYf]U' Zcf' DGA' Vi' h' h\Y' VfcUX' gV' dY' cZ h\Y' W]hYf]U' z' XcYg' bch ZUW']hY']XYbh]Z]W]h]cb' cZ' gdYV]Z]WdUfUa YhYfg' fY'" [" W]h]W' X]i h]cb' j c'i a Y' j U'i Yg' Zcf' ci hXccf' WYUblb['dfcXi Vtg'"

A cfYcj Yfz']h' k Ug' gi [[YghYX' Vmi U' =GC' hmdY' = YV' U' VY' h\Uh' XUHU' cb' YV' U' `UVY' YX' dfcXi Vtg' k]' bch VY' fYdfYgYbhU]j Y' Zcf' h\Y' a Uf_Yh' Ug']h' k]' bch dfcj]XY' Ybci [\]bZcfa Uh]cb' h\Uh' h\Uh' k]' VY' bYXYX' hc' gYh' h\Y' i V' ffYV' 78J' Yj Y' g' dYf' hmdY' cZ dfcXi Vtg'"

HUV' Y' %' @a]h' 78J' O#Q

DfcXi Vtg' hmdY'	%	&	'
5`! di fdcgY' WYUblb[fF HI'	) \$ \$\$\$	.	.
5`! di fdcgY' WYUblb[i bX]i hYX'	% \$\$\$	.	.
K]bXck' WYUblb[fF HI'	(, \$\$\$	+) \$\$\$	.
K]bXck' WYUblb[i bX]i hYX'	% \$\$\$	.	.
7cbWbhU]hYX' dfcZgg]cbU'	.	-) \$\$	.
Gc' j Ybh VUgYX' dfcXi Vtg' fF HI'	.	.	) \$\$ \$\$\$
DFY! dU]bh]b[' WYUblb[ZU, UXY' WYUblb[f]bW' [fUZZ]h' dfcXi Vtg'	.	.	) \$ \$\$\$

%1 9I' 9V' U' VY' Zcf' <UFX' Gi fZUW' 7' YUblb[' DfcXi Vtg' f' G7E' / &1 ' BcfX]W9V' U' VY']b[' cZ 7' YUblb[' DfcXi Vtg' J' ") /' 1' BcfX]W9V' U' VY']b[' cZ]bXi ghf]U' WYUblb[' UbX' XY[fYUg]b[' U[YbhJ' "\$

: c`ck]b[' h\]g' fyj]Yk' cZ]hg' Udd']WUV']]mz' h\Y' hYV' b]W' gdYV]Z]W]h]cb' fHG%&Z' \ Ug' VYYb' fY Zcfa i `UHYX' hc' k]h\XfUk' W]hYf]cb' %' cb' hcl]W]mi hc' Uei Uh]W' cf[Ub]ga g' Uh' Vch' h\Y' V' fY' UbX' V' a' dfY\ Ybg]j Y' Yj Y' g' Ug']h' k Ug' VUgYX' cb' h\Y' 9I' 9V' U' VY' Zcf' \ UfX' gi fZUW' WYUblb['dfcXi Vtg'" 5h' h\Y' V' fY' Yj Y' z' h\Y' fYei]fYa Ybh' cb' Yi W' XYX' UbX' fYghf]W]hYX' gi VghUbW' g' fW]hYf]cb' (E' cZ h\Y' 9I' 9V' U' VY' Zcf' \ UfX' gi fZUW' WYUblb['dfcXi Vtg' \ Ug' Ugc' VYYb' k]h\XfUk' b' Vi' h' fYHU]bYX' UbX' gYh' Uh' %\$\$\$ i' fUg' h\Y' dYfV' bhU[Y' a]b]a i a' j c'i a Y' cZ h\Y' dfcXi Vtg' Uh' di fV' UgY' E' Uh' h\Y' V' a' dfY\ Ybg]j Y' Yj Y' " 8i Y' hc' h\Y' fY Zcfa i `Uh]cb' cZ h\Y' W]hYf]cbz' h\Y' Uk UfX' W]hYf]U']g' fYXi bXUbh' UbX' h\i g' k]h\XfUk' b'"

:]bU`m]h]k Ug`V`bZ]fa YX`h\Uh`W]hYf]cb` (`cZ`h\Y`9I` `9V`U`VY` `Zcf` <G7`ž`k]h` fYgdYVh`hc`h\Y` `]gh`cZ`YI`Vh`XYX`UbX`fYghf]VhYX`gi`VghUbVWg`]b`h\Y`dfcXi`Vh` Zcfa`i`Uh]cb`]g` [YbYfU`m]b`U`][ba`Ybh`k]h`h\Uh`cZ`YI`]gh]b[`=GC`HmdY` = 9V`U`VY` `Zcf`WYUb]b[`dfcXi`Vhg`fFY[UfX`Ygg`cZ`Udd`]Vh]cb`]b`h\Y`a`Uf`_Yh` fY["`"ž`h\Y`BcfX]W9V`U`VY`]b[`W]hYf]U`Zcf`WYUb]b[`dfcXi`Vhg`UbX`]bXi`ghf]U` WYUbYfg`UbX`XY[fYUgYfg`"

5XX]h]cbU`m]Xi`Y`hc`h\Y`WUf]Z]Vh]cb`dfcj`]XYX`h\fcI`[\`h\Y`X]gW`gg]cb`cb` [fUZZ]h]fYa`cj`U`dfcXi`Vhg`fGY` " %" `h\Y`W]hYf]cb`]g`XYYa`YX`Udd`]VhV`Y`Zcf` U`di`fdcgY`ci`hXccf`WYUb]b[`dfcXi`Vhg`]bVh`X]b[`[fUZZ]h]fYa`cj`U`dfcXi`Vhg` fU`gc`Uh`h\Y`gYfj`]W`Yj`Y`h`H\YfYZcfYž`h\Y`fUh]cbU`Y`hc` [fUZZ]h]fYa`cj`U` cdYfUh]cb`f7D7` `]g`U`gc`i`dXUH`X`"

7f]hYf]cb`DfcdcgU`

7cfY`W]hYf]U`	7ca`dfY\`Ybg]j`Y`W]hYf]U`																		
HVWb]W`GdYVZ]Vh]cb`																			
<p>HG%`I`gY`cZ`WYUb]b[`dfcXi`Vhg`k`]h` `ck` Ybj`]fcb`a`YbhU`]a`dUVhg`</p> <p>%`5` WYUb]b[`dfcXi`Vhg`i`gYX`a`i`gh`bch`VY` WUgg]Z]YX`UbX` `UVY`YX`Ug`VY]b[`UW`hY`mi` hcl`]V`U`gdYVZ]W`hUf[Yh`cf[Ub`hcl`]W`bhz`U` fYgd]fUhc`fm`cf`g`_]b`gYbg]h]gYfž`W`fV]oc[Yb]V`a`i`hU[Yb]W`cf`hcl`]W`Zcf`fYdfcXi`Vh]cbž`cf` \UnUfXci`g`hc`h\Y`Ybj]fcb`a`Ybhž`cf`ZUa`a`UV`Y`]b`UW`V`FX`Ub`W`k`]h`FY[i`Uh]cb` f97`Bc`%&+&#&\$\$\$`cb`WUgg]Z]Vh]cbž`UVY`]b[`UbX`dUW`U[]b[`cZ`gi`VghUbVWg`UbX`a`]i`hi`fYg`fH\Y`f7`@`FY[i`Uh]cb`f`Ug`g`ck`b`]b`HUV`Y`%`VY`ck`"</p> <p>HUV`Y`%</p>	<p>HG%`I`gY`cZ`WYUb]b[`dfcXi`Vhg`k`]h` `ck` Ybj`]fcb`a`YbhU`]a`dUVhg`</p> <p>%`5` WYUb]b[`dfcXi`Vhg`dYf`mYUfž`Vm`j`c`i`a`Y`Uh`di`fW`UgYž`a`i`gh`VY`V`a`d`]Ubh`k`]h`W]hYf]cb`(`cb`YI`Vh`XYX`UbX`fYghf]VhYX`gi`VghUbVWg`cZ`h\Y`9I` `9V`U`VY` `Zcf` \UfX`gi`fZUW`WYUb]b[`dfcXi`Vhg`V`"</p> <p>&`7`YUb]b[`dfcXi`Vhg`a`i`gh`VY`dfcj`]XYX`k`]h`h\Y`fYV`a`a`Yb`XYX`Xcg]b[`gmgh`Ya`g`fY["`di`a`dž`[fUXi`UH`X`Vh]b`XYf`k`Y`b`Udd`]VhV`Y` =bZcfa`Uh]cb`cb`h\Y`hYV`b]W`XUH`g`Y`Yh`cZ`h\Y`Xcg]b[`gmgh`Ya`a`i`gh`gdYVZ]mi`h\Y`XcgYž`UbX`X]gdYbg]b[`XYj`]W`"</p>																		
<table border="1"> <tr> <td>5W`hY`hcl`]V]m`</td> <td>5W`hY`hcl` "%ž`5W`hY`hcl`" &`5W`hY`hcl`" `</td> </tr> <tr> <td>GdYVZ]W`hUf[Yh`cf[Ub`hcl`]V]m`É`fYdYUH`Y`YI`dcgi`fY`</td> <td data-bbox="454 1473 737 1599">GHCH`F`9`%`cf`&`</td> </tr> <tr> <td data-bbox="145 1603 451 1644">GdYVZ]W`hUf[Yh`cf[Ub`hcl`]V]m`É`g]b[`Y`YI`dcgi`fY`</td> <td>GHCH`G`9`%ž`&`cf`" `</td> </tr> <tr> <td data-bbox="145 1648 451 1688">7UfV]bc[Yb]V]m`</td> <td>7UfW`%5ž`7UfW`%6ž`7UfW`&`</td> </tr> <tr> <td>;`Yfa`W`"a`i`hU[Yb]V]m`</td> <td>A`i`hU`" %5ž`A`i`hU`" %6`ž`A`i`hU`" &`</td> </tr> <tr> <td data-bbox="145 1738 451 1778">FYdfcXi`Vh]`Y`hcl`]V]m`</td> <td>FYdf`" %5ž`FYdf`" %6`ž`FYdf`" &`</td> </tr> <tr> <td data-bbox="145 1783 451 1865"><UnUfXci`g`hc`h\Y`Uei`Uh]W`Ybj`]fcb`a`Ybh`</td> <td data-bbox="454 1783 737 1865">5ei`Uh]W`5W`hY` `ž`5ei`Uh]W`7`fcb]W`%cf`&`</td> </tr> <tr> <td data-bbox="145 1870 451 1910">FYgd]fUhc`fm`gYbg]h]hUh]cb`</td> <td>FYgd`"GYbg`" %ž`%5`cf`%6`</td> </tr> <tr> <td>G_]b`gYbg]h]hUh]cb`</td> <td>G_]b`GYbg`" %ž`%5`cf`%6`</td> </tr> </table>	5W`hY`hcl`]V]m`	5W`hY`hcl` "%ž`5W`hY`hcl`" &`5W`hY`hcl`" `	GdYVZ]W`hUf[Yh`cf[Ub`hcl`]V]m`É`fYdYUH`Y`YI`dcgi`fY`	GHCH`F`9`%`cf`&`	GdYVZ]W`hUf[Yh`cf[Ub`hcl`]V]m`É`g]b[`Y`YI`dcgi`fY`	GHCH`G`9`%ž`&`cf`" `	7UfV]bc[Yb]V]m`	7UfW`%5ž`7UfW`%6ž`7UfW`&`	;`Yfa`W`"a`i`hU[Yb]V]m`	A`i`hU`" %5ž`A`i`hU`" %6`ž`A`i`hU`" &`	FYdfcXi`Vh]`Y`hcl`]V]m`	FYdf`" %5ž`FYdf`" %6`ž`FYdf`" &`	<UnUfXci`g`hc`h\Y`Uei`Uh]W`Ybj`]fcb`a`Ybh`	5ei`Uh]W`5W`hY` `ž`5ei`Uh]W`7`fcb]W`%cf`&`	FYgd]fUhc`fm`gYbg]h]hUh]cb`	FYgd`"GYbg`" %ž`%5`cf`%6`	G_]b`gYbg]h]hUh]cb`	G_]b`GYbg`" %ž`%5`cf`%6`	<p>J`Yf]Z]Vh]cb`</p> <p>%`h\Y`hYbXYfYf`a`i`gh`dfcj`]XY`U`XYWUfUh]cb`cZ`V`a`d`]UbW`k`]h`h\]g`W]hYf]cb`gi`ddcfhYX`Vm`h\Y`a`UhYf]U`gUZ]m`XUH`g`Y`Yhg`" DfcXi`Vhg`h\Uh`\Uj`Y`VYyb`Uk`UfXYX`k`]h`U`fY`Yj`Ubh`=GC`HmdY` = YV`U`VY` `V`j`Yf]b[`h\Y`gUa`Y`fYeI`]fYa`Ybhg`k`]`VY`XYYa`YX`hc`V`a`d`m`"</p> <p>&`h\Y`hYbXYfYf`a`i`gh`dfcj`]XY`U`XYWUfUh]cb`cZ`V`a`d`]UbW`k`]h`h\]g`W]hYf]cb`gi`ddcfhYX`Vm`h\Y`hYV`b]W`XUH`g`Y`Yhg`"</p>
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<p>&Ł 7`YUbb[`dfcXi Wtg` a i ghi VY` dfcj]XYX` k]h` h.Y` fYWŁa a YbXYX` Xcg]b[`grghYa g` fY"[" di a dž` [fUXi UHYX` Vh]bXYfŁ` k \Yb` Udd]WVY`" =bZcfa Uh]cb` cb` h.Y` hVXb]WV` XUHU` g\YYh` cZ` h.Y` Xcg]b[`grghYa` a i ghi` gdYVZmh.Y` XcgYž` UbX` X]gdYbg]b[`XYj]W`"</p> <p>J Yf]Z]W]h]cb.</p> <p>%Ł H\Y` hYbXYfYf` a i gh'dfcj]XY` U` XYWUfUh]cb` cZ` WŁa d`]UbW` k]h` h.]g` W]hYf]cb` gi ddcfhYX` Vm` h.Y` a UhYf]U` gUZYhm` XUHU` g\YYhg`" DfcXi Wtg` h.Uh` \Uj` Y` VYYb` Uk` UfXYX` k]h` U` fY`Yj` Ubh` =GC` HmdY` = YWŁ` UVY`` WŁj` Yf]b[` h.Y` gUa` Y` fYei]fYa` Ybhg` k]` VY` XYYa` YX` hc` WŁa d`m`"</p> <p>&Ł H\Y` hYbXYfYf` a i gh'dfcj]XY` U` XYWUfUh]cb` cZ` WŁa d`]UbW` k]h` h.]g` W]hYf]cb` gi ddcfhYX` Vm`h.Y` hVXb]WV` XUHU` g\YYhg`"</p>	
<p>9I d`UbUhcfmBchYg`</p> <p>^C>`@%` \$ž`%&`"+`&\$%+ž`d" `() !`*`&/`7ca` a]gg]cb` 8YW]g]cb` f9I` Ł` &\$%+`#%&%+` cZ` &` `>` bY` &\$%+` YghUV`]g`]b[`h.Y` 9I` 9WŁ` UVY`` W]hYf]U` Zc`f` \UfX` gi fZUW` WYUb]b[`dfcXi Wtg`" 5j` U]`UVY` Žca` .` \hd. ##Yi` f!` Yi` "Yi` fcdU`Yi` #Y[` U!` WŁbhYbh`#9B` #HL`H#D8: `#3i` f]1` 79@9L.` &\$%+`8%&%+`/` Žca` 1` 9B`</p>	

'`%'& ; fUZZ]h]`fYa` cj` U`dfcXi Wtg` Ě` W]hYf]cb` k]h` XfUk` b`

F U]h]cbU`Y`

I` bXYg]fYX` [fUZZ]h]` WYUHYg` UYgh\Yh]WdfcV`Ya` gž` WŁb` `YUX` hc` h.Y` XUa` U[` Y` cZ`
gi` fZUW`gž` UbX`]g` cZ`hYb` U`gc` UggcW]UhYX` k]h` j` UbXU`]gUh]cb`" 9i` fcdY` gdYbXg`
UVci` h` -` \$` a`]`cb` 9i` fcg` YUW` mYUf` cb` [fUZZ]h]` UHUU`g` UbX` UggcW]UhYX`
WYUb]b[`dfcW]Xi` fYg` f7`CF`8`=G`!` 9i` fcdYUb` 7ca` a]g]cbž` &\$%` Ł` Hc` a` U]bhU]b`
h.Y` UddYUfUbW` cZ`Vi`]X]b[` g`UbX`ghfi` W]i` fYgž` [fUZZ]h]` fYa` cj` U`]g`XYg]fUV`Y`"

H\YfY` UfY` X]ZZYfYbhi` hmdYg` cZ` [fUZZ]h]` a` UhYf]U`g` UbX` Udd]W]h]cb` a` Yh\cXg`
]bW]i` X]b[` .` dU]bh` fUdd]YX` Vm` Vfi` g\` cf` UYfcgc` Łž` ZY`H`h]d` a` Uf`_Yfgž` VU`dc]bh`
dYbgž` k` Ul` m` gi` VghUbW]g` gi` WŁ` Ug` W]UmŁbg` UbX` `]dgh]W]ž` WŁ`U`_ž` gW]UH]b[` ž`
ZUa` Yž` dcghYfg` UbX` UX\Yg]j` Y` `UVY`g` CZ` h.YgYž` gdfUm`dU]bh`]g` h.Y` df]a` Ufmi`
[fUZZ]h]` a` UhYf]U` i` gYX` VYW]i` gY`]h` WŁb` VY` ei`]W]`m` UbX` YUg]mi` Udd]YX` hc` Ubmi`
hmdY` cZ`gi` VghfUH` fGUba` UfhŁb` Yh` U`ž`&\$%(` Ł`"

; fUZZ]h]` a` UmVY`fYa` cj` YX` i` g]b[`U`j` Uf]YhmicZ` a` Yh\cXg`" H\Y` a` cfY` hfUX]h]cbU`
a` Yh\cX` YbhU]g` dU]bh]b[`cj` Yf` Ug` U` dYfa` UbYbh` WŁj` Yf` cf` Ug` U` hYa` dcfUfmi`
a` YUbg` cZ` WŁbW]U`]b[` [fUZZ]h]` i` bh]`]h` WŁb` VY` fYa` cj` YX`" H\]g` a` Yh\cX`]g` h.Y`
YUg]Ygh`UbX` WŁ`YUdYgh`WYUb]b[`Zcfa` `Vi` h]h`WŁb` fYgi` `h]b`U` \YUj` miVi`]X]i` d`cZ`
dU]bh]cb`U`Vi`]X]b[`gi` fZUW` Xi` Y`hc` fYdYUhYX` dU]bh]b[`"

ghi Xmi k \]W\ ZcW gYX' X]fYV\mi cb' V]cfYa YX]Uh]cb' cZ' [fUZZ]h] gdfUm dU]bh
YI]ghg''''

7\Ya]W\ fYa cj U' U[Ybhg' \Uj Y' VYYb' gi [[YghYX' Ug' h\Y' a cgh' V\bj Yb]Ybh
UbX' \YUgh' XUa U[]b[' hc' hfYUHYX' cf' i bhfYUHYX' gi fZUW\gž' UbX' UfY' [YbYfU'mi
fYV\ta a YbXYX' Zcf' h\Y' fYa cj U' cZ U' hmdYg' cZ' [fUZZ]h]'' H\YfY' UfY' h' c' a U]b'
hmdYgž' cf[Ub]Wgc'j Ybh' V'YbXg' UbX']bcf[Ub]W\ Wli gh]WVUgYX' V'YbXg'' 7Ui gh]W
VUgYX' V'YbXg' Xc' bch' XY[fUXYZ' UfY' bch' Ug' YZZYV\j Y' UbX' h\YfY'ZcfY' UfY' bch'
dfYZYffYX' fgca Y']bcf[Ub]W gc'j Ybhg' fY'' ['' U\Xg\ U\UW\ V\bWYHY\ 5g'
cf[Ub]Wgc'j Ybhg' UfY' dfYZYffYX' Ug' h\Ymi Yj UdcfUHY' V\ta d'YHY' nž' \Uj]b[' bc'
fYg]Xi U' a UHYf]U' cb' h\Y' gi VghfUHY' <ck Yj Yfž' h\Ymi UfY' hcl]WVmi]b[Ygh]cbž'
]b\U'Uh]cb' UbX' g_]b' V\bhUW\ fGUba Ufh\b' YH' U''ž' &\$%(Łž' fDi V']W HfUbgdcfhi
J]W\cf]Už' &\$\$, Ł''

7\Ya]W\ gc'j Ybhg' fk \]W\ hmd]W\mi V\bhU]b' a Yh\m' Yh\m' _YhcbYž'
a Yh\mYbYž' W\cf]XY' UbX' d\Ybc'Ł' a Um dYbYhfUHY']bhc' h\Y' gi VghfUHY' UbX'
Wli gY']ffYj Yfg]V'Y' XUa U[Y'' H\]g']g']b' UXX]h]cb' hc' h\Y]f' dchYbh]U'
Ybj]fcba YbhU' UbX' \YU'h' \UnUfXg'' 7cbj Ybh]cbU' d\mg]W\ fbch' UgYfŁ' cf'
a YW\Ub]W\ a Yh\cXg' XUa U[Y' h\Y' hYi hi fY' Xi Y' hc' i b]bhYbXYX' a UHYf]U'
fYa cj U' Zfca' h\Y' gi fZUW'' H\Ymi W\ub' Ugc' [YbYfUHY' dc''i hUbhg/' Y'' [''ž'
dc''i h]cb' V\bhfc'']g' dUfh]W' Uf'm X]ZZ]W' h' k]h\ k UHYf' cf' UVfUg]j Y' V'Ugh]b[ž'
k \]W\ fY'YUgY' Uf[Y' j c'i a Yg' cZ j Yfm Z]bY' Xi gh' dUfh]WYg']bhc' h\Y' U]f'' =b'
UXX]h]cb' hc' VY]b[' j Yfm YI dYbg]j Yž' \UgYf! WYUb]b[' hYW\ b]ei Yg' Ugc' \Uj Y'
X]gUXj UbhU[Yg' Ug' h\Ymia UmU'HYf' h\Y' V\ci f' cZ h\Y' gi VghfUHY' fGUba Ufh\b' YH'
U''ž' &\$%(Ł''

H\Y' i gY' cZ' [fUZZ]h] fYa cj U' dfcXi W\g' a Um fYgi 'h']b' gYf]ci g' Ybj]fcba YbhU'
V\bgYei YbW\g' fgj W\ Yi hfcd\]W]h]cb' UbX' YV\hcl]W\mŁ' Xi Y' hc' h\Y' fY'YUgY' cZ'
W\Ya]W\g' hc' h\Y' Uha cgd\YfY' UbX' h\Y']bUddfcdf]UHY' X]gW\ Uf[Y' cZ' i bhfYUHYX'
k UghY' k UHYf' fYgi 'h]b[' Zfca' h\Y' cdYfU]h]cb'' H\]g']a dUW\ W\ub' VY' a]h][UHYX' Vmi
i g]b[' Ybj]fcba YbhU'm Z]YbX'm U'HYfbU]h]j Yg' k \]W\ UfY' V]cXY[fUXUV'Yž' Xc'
bch]V]cUW\ a i 'UHY' UbX']a]h]Ya]gg]cbg' cZ' hcl]Wgi VghU]bW\g']bhc' h\Y' Uei Uh]W
Ybj]fcba Ybhž']b' UXX]h]cb' hc' dYfZfca]b[' YZZYV\j Y'm h\Y' gUa Y' Ž' bW]h]cb' Ug'
h\Y]f' hfUX]h]cbU' V\ci bhYfdUfhg' fk \]W\ V\bhU]b' Ufca Uh]W \mXfcW\fvcbgž'
W\cf]bY' V\ta dci bXg' UbX' V\ta d'YI]b[' U[YbhgŁ''

' '%!&'% Gi a a UfmicZ'ghU_Y\c`XYfg'V\ta a Ybhg'Zfca '
5<K ; &

5' ghU_Y\c`XYf' ghUHYX' h\Uh' [fUZZ]h] fYa cj U' dfcXi W\g' UfY' UW\i U'm [WYUb]b['
dfcXi W\gŁ' '' H\YfY'ZcfY' hc' \Uj Y' U'gdYW\U' XYa UbX' Zcf' [fUZZ]h] fYa cj U' k]'' 'i gh'
VY' V\bz' g]b[' Ug' h\YfY']g' U'fYUXmi U' XYa UbX']bW\ X]b[' h\Uh']b' HG%' ' =h' k Ug'
fYV\ta a YbXYX' h\Uh' h\Y' W]hYf]cb' Zcf' [fUZZ]h] dfcXi W\g' UbX' [fUZZ]h] fYa cj U'
gYfj]W' fHG+Ł' g\ci 'X' VY' k]h\XfUk b''''

; fUZZ]h] fYa cj U' dfcXi W\g' UfY' ci hXccf' WYUb]b[' dfcXi W\g' UbX' UfY' bYghYX'
k]h]b' h\Y' gV\cdY' cZ' h\Y' "U"! di fdcgY' WYUbYfg'' Vmi HmdY' = 9V\ UfY' g' k \]W\ '
\Uj Y' W]hYf]U' Zcf' U'' di fdcgY' WYUb]b[' dfcXi W\g' 'cf' "\YUj m Xi hmi WYUb]b['

U[Ybhg"" Gca Y`ch\Yf`HmdY`=YVt`UVY`g`gi V\`Ug`h\Y`6fU`A`]`~`j`U`\\Uj`Y`[`fUZZ]h`
fYa`cj`U`dfcXi`Vhg`]b`h\Y`gVt`dY`cZ`h\Y`W]hYf]U[`;`ccX`9bj`]fcb`a`YbHU`7\c]W`
7\Ya`]W`DfcXi`Vhg`5`h\ci`[\`h\Y`UthYf`W]hYf]U`XcYg`bch`WUgg]Zm`dfcXi`Vhg`
]bhc`Ubm`dfcXi`Vh`[`fci`d`Ug`]hg`df]bW]dU`U]a`Ug`h\Y`ch\Yf`Uj`U]UVY`HmdY`=
YVt`UVY`g`E`BcfX]W`9Vt`UVY`]b[`W]hYf]U`Zcf`]bXi`ghf]U`WYUb]b[`UbX`
XY[fYUg]b[`U[Ybhg`fBcfX]W`9Vt`UVY`]b[`z`>`bY`&\$%*`Lz`UbX`h\Y`;`fYYb`GYU`
GHUbXUfX`f!`G!)`GdYV]U`hm`7`YUb]b[`DfcXi`Vhg`Zcf`=bXi`ghf]U`UbX`
=bgh]hi`h]cbU`I`gYz`&\$%+`E`k`\]W`\\Uj`Y`W]hYf]U`Udd`]WV`Y`hc`[`fUZZ]h`
fYa`cj`Yfg`]g`h\Y`Y]a`]bUh]cb`cZ`\\UnUfXci`g`gi`VghUbW]g`fY[`UfX`Ygg`cZ`k`\Uh`
gcfh`cZ`WYa`]W`dfcXi`Vh`h\Ym`UfY`i`gYX`]b`5XX]h]cbU`mz`h\YfY`UfY`bc`hmdY`=
YVt`UVY`g`h\Uh`\\Uj`Y`W]hYf]U`Zcf`h\Y`dfcXi`Vh`[`fci`d`[`fUZZ]h`fYa`cj`U`U[Ybhg""

:`cf`h\YgY`fYUgcbg`U`gYdUfUH`W]hYf]cb`dfcdcgU`Zcf`[`fUZZ]h`fYa`cj`U`
dfcXi`Vhg`]g`bch`bYYXX""`H\]g`Ugc`fYbXYfg`h\Y`fY`UH`X`W]hYf]cb`Uh`h\Y`
gYfj`]W`Yj`Y`fHG+`E`fYXi`bXUbh`H\YfY`ZcfY`h\Y`Yi`]gh]b[`W]hYf]cb`dfcdcgU`Zcf`
U`di`fdcgY`ci`hXccf`WYUb]b[`dfcXi`Vhg`fHG%`E`]g`Udd`]WV`Y`hc`[`fUZZ]h`
fYa`cj`U`dfcXi`Vhg`"

'`%"` **8Y!]W]b[`UbX`gbck`fYa`cj`U`dfcXi`Vhg`**

F`Uh]cbU`Y`

Hk`c`WUggYg`cZ`XY!]W]b[`UbX`gbck`fYa`cj`U`dfcXi`Vhg`UfY`Udd`]YX`]b`9i`fcdY`
hc`a`]h[`UH`h\Y`ZZY`W]g`cZ`gbck`UbX`]W`.

- `7\Ya`]W`XY!]W]b[`a`UhYf]U`g`E`h\YgY`gi`VghUbW]g`a`cX]Zm`h\Y`
dfcdYfh]Yg`cZ`gbck`UbX`]W`Vmi`Y]h\Yf`d\ng]W]`UbX`#cf`WYa`]W`
a`YUb]g`8Y!]W]b[`a`UhYf]U`g`a`UmVY`Y]h\Yf`]ei`]X`cf`gc`]X`f[`fUbi`UhY`E`"
- `5VfUg]j`Y`a`UhYf]U`g`UfY`gi`VghUbW]g`W]dUV`Y`cZ`a`YVX`Ub]W]`m`
]bWYUg]b[`h\Y`Z]W]cb`Vt`YZZ]W]Ybh`cZ`]W]cf`Vt`a`dUWYX`gbck`UnYfg`cb`
h\Y`fcUX`gi`fZ]W]z`UbX`]bW]XY`a`UhYf]U`g`gi`V\`Ug`gUbX`UbX`[`f]h`"

5`h\ci`[\`UVfUg]j`Y`a`UhYf]U`g`UfY`W`YUdYf`h\Ub`WYa`]W`XY!]W]b[`a`UhYf]U`g`z`
h\Ym`UfY`UggcW]UH`X`k`]h`]ggi`Yg`gi`V\`Ug`Xi`gh`[`YbYfUh]cbz`gYk`U[`Y`Wc`[`[`]b[`z`
YhWz`k`\]W``]a`]hg`h\Yf`k`]X`YgdfYUX`Udd`]W]h]cb`Ug`k`]bhYf`a`]bhYbUbW`
a`UhYf]U`g`"

8Y!]W]fg`UfY`YggYbh]U`hc`k`]bhYfh]a`Y`fcUX`a`]bhYbUbW`UbX`UfY`Udd`]YX`Zcf`
a`]bhU]b]b[`h\Y`Z]W]cb`cf`dfYj`Ybh]b[`h\Y`Z]YYn]b[`cZ`gi`fZ]W]g`gi`V\`Ug`
fcUXg`cf`ZcchdUH`g`H\Ym`a`Um`VY`]ei`]X`cf`gc`]X`UbX`UfY`Vtbg]XYfYX`
bYW]ggUfm`Zcf`fcUX`gUZY`hm`UbX`UW]W]gg]V`]hm`"

5`h\ci`[\`fcUX`gU`hg`UfY`h\Y`a`cgh`dcdi`Uf`a`UhYf]U`Zcf`XY!]W]b[`Xi`Y`hc`h\Yf`
\\[`\`ZZY`W]j`YbYggz`YUgm`cdYfUh]cbz`UbX`ck`]b]h]U`Vt`ghg`h\Y`fY`YUgY`cZ`
Uf[`Y`ei`Ubh]h]Yg`cZ`gU`hg`W]b`W]i`gY`g][`b]Z]W]bh`Ybj`]fcb`a`YbHU`]a`dUW]g`gi`V\`
Ug`XUa`U[`Y`hc`h\Y`gc`]z`k`UhYfz`j`Y[`YhUh]cb`UbX`k`]X`]ZY`fHf`Ubgdcf`hUh]cb`
F`YgYUfW`6`cUfXz`&\$`\$`+`E`f]ci`h]z`Yh`U`z`&\$`\$`E`"

GU`h`\\Ug`U`gc`VYYb`]XYbh]Z]YX`Ug`Vt`bhf]Vi`h]b[`g][`b]Z]W]bh`mi`hc`h\Y`Vt`ffcg]cb`
cZ`]bZ]Ughfi`W]i`fY`UbX`]bWYUg]b[`a`]bhYbUbW`Vt`ghg`H\i`gz`h\YfY`]g`U`

[fck]b[`VčbWfb`UVci h`h`Y`Ybj]fcb`a`YbhU`YZZYVtg`cZ`XY!]Vb[`fYgi `h]b[`Zfca`
h`Y`Udd`]WU]cb`cZ`Uf[`Y`Ua`ci`bhg`cZ`W`cf]XY`VUgYX`fcUX`gU`hg`gi`W`Ug`BU7`ž`
7U7`&`UbX`A [7`&`YgdYVU`m]b`BcfX]WVč`i`bhf]Yg`f`ci`h]ž`Yh`U`ž`&\$`\$`Ł`"

5bh]!]Vb[`UbX`XY!]Vb[`U[`Ybhg`VčbHU]b`WYa`]W`g`h`Uh`WU`b`Uj`Y`U`bY[`Uh]j`Y`
YZZYVh`cb`j`Y[`YhU]cbž`gi`fZUW`UbX` [fci`bX`k`UhYf`Uei`]ZYfg`fY"[""]bWYUgY`]b`
h`Y`gU`]b]mč`k`Yb`h`Ym`UfY`i`gYX`bYUf`ZFYg`k`UhYf`YVč`gmghYa`g`5`hYfbUh]j`Yg`
hc`W`cf]XY`VUgYX`fcUX`gU`hgž`gca`Y`cZ`k`W`Uj`Y`j`Yfm`a`]b]a`U`W`cf]XY`
VčbhYbh`k`Y`Y`ch`Yfg`UfY`cf[`Ub]WVUgYX`XY!]W`fgž`UfY`cb`h`Y`a`Uf`_Yh`H`YgY`
]bW`i`XY`W`fVc`n`X`f`UH!`VUgYX`gc`i`h]cbg`fVčfb`cf`VYYhf`cch`Vm`dfcXi`Vtgž`
W`V`i`a`a`U[`bYg]i`a`U`V`UH`Y`f7A`5čž`dchUgg]i`a`U`V`UH`Y`ž`gcX]i`a`U`V`UH`Y`ž`
gcX]i`a`Zcfa`UhYž`UbX`dchUgg]i`a`Zcfa`UhY`H`YgY`dfcXi`Vtg`Uj`Y`ck`Yf`
V]cWYa`]W`cl`m[`Yb`XYa`UbX`f6C`8č`UbX`hcl`]V`m`W`Uf`U`V`f]gh]Vg`UbX`UfY`
U`gc`V]c!`XY[`fUXUV`Y`fF]h`c`ZZ`&\$`%`Ł`H`YgY`U`hYfbUh]j`Yg`Uj`Y`a`]b]a`U`
Ybj`]fcb`a`YbhU`]a`dU`V`gž`Vi`h`UfY`U`gc`a`cfY`Yi`dYbg]j`Y`h`Ub`fcUX`gU`hg`5`
bi`a`VYf`cZ`h`YgY`U`hYfbUh]j`Yg`UfY`Uj`U]UV`Y`]b`h`Y`a`Uf`_Yhž`UbX`UfY`
YVč`UVY`YX`U`V`č`fX]b[`hc`h`Y`BcfX]W9Vč`UVY`ž`h`Y`;`Yfa`Ub`6`i`Y`5b[`Y`ž`UbX`
h`Y`7`UbUX]Ub`9bj`]fcb`a`YbhU`7`c]W`Dfc[`fUa`" `H`YgY`UVY`g`Uj`Y`g]a`]Uf`
W]hYf]U`Zcf`XY!]Vb[`U[`Ybhg`fBcfX]W9Vč`UVY`]b[`&\$`%`Ł`"

5`W]hYf]cb`k`W`]a`]hg`h`Y`XYd`cma`Ybh`cZ`dfcXi`Vtg`WUggYX`Ug`VY]b[`U`
U`V`h`Y`m`hcl`]Vž`U`gdYV]Z]W`hUf[`Yh`cf[`Ub`hcl`]WU`b`hž`U`fYgd]fU`hcfm`cf`g_]b`
gYbg]h]nYfž`W`fV]b[`Yb]Vž`a`i`hU[`Yb]Wcf`hcl`]WZcf`fYdfcXi`V]cbž`cf`UnUfXci`g`
hc`h`Y`Ybj`]fcb`a`Ybhž`]b`U`V`č`fX`Ub`W`k`]h`FY[`i`Uh]cb`f97č`Bc`%&`+`&`&\$`\$,`cb`
WUgg]Z]WU]cbž`UVY`]b[`UbX`dU`U`]b[`cZ`gi`VghUbW`g`UbX`a`]i`hi`fYg`f`h`Y`
f7`@`D`FY[`i`Uh]cb`f]`g`dfc`dcgYX`"

**' "%" "% Gi a a UfmcZ`ghU`Y\c`XYfg`Vč`a`a`Ybhg`Zfca`
5<K ; &**

GhU`Y\c`XYfg`gi`[[`YghYX`U`Z`hYf`h`Y`gYVčbX`5<K ; `k`YV]bUf`a`YYh]b[`g`h`Uh`
YVč`UVY`YX`XY!]Vb[`UbX`gbck`fYa`cj`U`dfcXi`Vtg`VY`dfc`dcgYX`Uh`h`Y`
Vč`a`dfY`Y`bg]j`Y`Y`j`Y`Vi`h`h`Uh`Uh`h`Y`Vč`fY`W]hYf]U`]hg`W`ffYbh`Zcfa`i`Uh]cb`
g\ci`X`VY`fYhU]bYX`":`cf`h`Y`gUa`Y`W]hYf]U`]h`k`Ug`gi`[[`YghYX`h`Uh`]h`VY`
WUf]Z]YX`k`Uh`h`Y`W]hYf]U`]g`Zcf`h`Y`XYZ]b]h]cb`cZ`U`dfcXi`Vh`k`]h`ck`
Ybj`]fcb`a`YbhU`]a`dU`V`h`YgdYVU`m]b`h`Y`VčbhY`i`h`cZ`U`h`Uk`a`UhYf]U`_Y`
GcX]i`a`7`cf]XY`"

:`fca`Ub`9I` ;`DD`dYfgdYV]j`Yž`h`Y`fYei`]fYa`Ybhg`cZ`HmdY`= `YVč`UVY`g`h`Uh`
Uj`Y`W]hYf]U`Zcf`XY!]Vb[`UbX`gbck`fYa`cj`U`dfcXi`Vtg`Xc`bchX]ZZYf`Zfca`h`Y`
fYei`]fYa`Ybhg`ghUhYX`]b`h`Y`W]hYf]cb`" `A`cfYcj`Yfž`Ug`gca`Y`Vč`i`bhf]Yg`fYghf]W`
h`Y`i`gY`cZ`W`fH]b`XY!]Vb[`UbX`gbck`fYa`cj`U`dfcXi`Vtg`k`]\]gh`ch`Yfg`dYfa`]h`
h`Ya`ž`]h]g]a`dYfUh]j`Y`h`Uh`h`Y`W]hYf]cb`Zcfa`i`UH`YX`]b`U`ZYI`]VY`a`UbbYf`hc`
YbUVY`]h`hc`VY`i`gYX`fY[`UfX`Ygg`cZ`c`WU]cb`" `7`cf]XY`VUgYX`]bcf[`Ub]WXY`
]W`fg`UfY`W`ffYbh`mi`h`Y`a`cgh`i`gYX`XY]Vb[`U[`Ybhg`Xi`Y`hc`h`Y]f`fY`Uh]j`Y`m`ck`
Vč`ghg`]b`Vč`a`dUf]gcb`hc`Ubm`ch`Yf`U`hYfbUh]j`Y`XY!]Vb[`U[`Ybhg`" `H`YfY`ZcfY`
]a`dcg]b[`fYghf]W]cb`cb`h`Y`VčbW`bhfUh]cbg`cZ`h`Y`W`cf]XYg`WU`b`Y`d`"

Ybgi fY` h\Uh` h\Y` XY!]Wfg` Z bW]cb` YZ]WYbh`mi UbX` k]h` a]b]a U` UXj YfgY` Ybj]fcba YbhU` YZYWg`" H\Y` BcfX]W9Vt` `UVY`]b[`gYhg` U` h\fyg\c`X` h\Uh` XY!]Wfg`g\ci` X` bch` Vt`bhU]b` a cfY` h\Ub` "%\$` dYfWbh`Vm k Y][` \h`cZ` W`cf]XY`]cbg` f9Vt`UVY`]b[`z` GYdhYa VYf` &\$%+L`" H\]g`]g` Vt`bg]XYfYX` Uddfcdf]UhY` UbX`]g` h\YfYzc`fY`dfcdcgYX`"

: cf` h\YgY` fYUgcbg`z` h\Y` gi [[Ygh]cb`]g` bch` Vt`bg]XYfYX` Vi` h`U` a cX]Z]W]h]cb` cZ` h\Y` j` Yf]Z]W]h]cb` fYei`]fYa` Ybh` \Ug` VYYb` a` UXY` hc` UWVt` a` a` cXUhY`]h` Hc` WUf]Zmi` h\Y` W]hYf]U` Zcf` XY!]W]b[`UbX` gbck` fYa` cj` U` dfcXi` Wg` k]h` `ck` Ybj]fcba YbhU`]a` dUVWg`z` h\Y` fYei`]fYa` Ybh`cZ` h\Y` W]hYf]U` \Ug` VYYb` i` dXUhYX`"

..

7f]hYf]cb` Dfc`dcgU`

7cfY`W]hYf]U`	7ca`dfY` \Ybg]j` Y`W]hYf]U`																		
HYWb]W` GdYVY]Z]W]h]cb`																			
<p>HG&`"8Y!]W]b[`UbX` gbck` fYa` cj` U` dfcXi` Wg` <i>(Same formulation for Core and Comprehensive)</i></p> <p>%`8Y!]W]b[`UbX` gbck` fYa` cj` U` dfcXi` Wg` a` i` gh` Vt`bhU]b` `Ygg` h\Ub` %a` `W`cf]XY`]cb` f7` ^L`</p> <p>&`"8Y!]W]b[`UbX` gbck` fYa` cj` U` dfcXi` Wg` a` i` gh` bch` VY` WUgg]Z]YX` UbX` `UVY` YX` Ug` VY]b[`UW` h`m`hcl`]Vt` Vt`ffcg]j` Y` hc` a` YH`g`z` U`gdYVY]Z]W]h]f[Yh`cf[Ub` hcl`]W]b]h`z` U` fYgd]fUhc`fm`cf` g_]b` gYbg]h]gYfz` W]fV]bc[Yb]Vt` a` i` hU[Yb]W`cf` hcl`]W` Zcf` fYdfcXi` W]cbz` cf` \UnUfXci` g` hc` h\Y` Ybj]fcba Ybh`z`]b` UWVt`fXUbW` k]h` FY[i` Uh]cb` f97L` Bc` %&+&#&\$\$, `cb` WUgg]Z]W]h]cbz` `UVY`]b[`UbX` dUW]U[]b[`cZ`gi` Vgh]UbW]g` UbX` a`]i` h` fYg` fF7` @` F Y[i` Uh]cb]f` Ug`g\`ck` b`]b` HUV`Y` &` VY`ck` "</p> <p>HUV`Y` &</p> <table border="1"> <tr> <td>5W`hY`hcl`]W]m`</td> <td>5W`hY`hcl` ""%z`5W`hY`hcl` ""&z`5W`hY`hcl` ""`</td> </tr> <tr> <td>GdYVY]Z]W]h]f[Yh`cf[Ub`hcl`]W]m`E` fYdYU`hYX` Yl` dcgi` fY`</td> <td>GHCH`F`9`%cf`&</td> </tr> <tr> <td>GdYVY]Z]W]h]f[Yh`cf[Ub`hcl`]W]m`E`g]b[`Y`Yl` dcgi` fY`</td> <td>GHCH`G`9`%z`&`cf``</td> </tr> <tr> <td>7Uf]V]bc[Yb]W]m`</td> <td>7UfW`%5z`7UfW`%6z`7UfW`&</td> </tr> <tr> <td>;`Yfa` `W`"a` i` hU[Yb]W]m`</td> <td>A`i`HJ`%5z`A`i`HJ`%6`z`A`i`HJ`&</td> </tr> <tr> <td>FYdfcXi` W]j` Y`hcl`]W]m`</td> <td>FYdf`" %5z`FYdf`""%6z`FYdf`" &</td> </tr> <tr> <td><`UnUfXci` g`hc` h\Y` Uei` Uh]WYbj`]fcba` Ybh`</td> <td>5ei`Uh]W5W`hY`%z`5ei`Uh]W7` \fcb]W`%cf`&z`5ei`Uh]W7` \fcb]W`</td> </tr> <tr> <td>FYgd]fUhc`fm`gYbg]h]nUh]cb`</td> <td>FYgd`"GYbg`""%z`%5`cf`%6`</td> </tr> <tr> <td>G_]b`gYbg]h]nUh]cb`</td> <td>G_]b`GYbg`""%z`%5`cf`%6`</td> </tr> </table>		5W`hY`hcl`]W]m`	5W`hY`hcl` ""%z`5W`hY`hcl` ""&z`5W`hY`hcl` ""`	GdYVY]Z]W]h]f[Yh`cf[Ub`hcl`]W]m`E` fYdYU`hYX` Yl` dcgi` fY`	GHCH`F`9`%cf`&	GdYVY]Z]W]h]f[Yh`cf[Ub`hcl`]W]m`E`g]b[`Y`Yl` dcgi` fY`	GHCH`G`9`%z`&`cf``	7Uf]V]bc[Yb]W]m`	7UfW`%5z`7UfW`%6z`7UfW`&	;`Yfa` `W`"a` i` hU[Yb]W]m`	A`i`HJ`%5z`A`i`HJ`%6`z`A`i`HJ`&	FYdfcXi` W]j` Y`hcl`]W]m`	FYdf`" %5z`FYdf`""%6z`FYdf`" &	<`UnUfXci` g`hc` h\Y` Uei` Uh]WYbj`]fcba` Ybh`	5ei`Uh]W5W`hY`%z`5ei`Uh]W7` \fcb]W`%cf`&z`5ei`Uh]W7` \fcb]W`	FYgd]fUhc`fm`gYbg]h]nUh]cb`	FYgd`"GYbg`""%z`%5`cf`%6`	G_]b`gYbg]h]nUh]cb`	G_]b`GYbg`""%z`%5`cf`%6`
5W`hY`hcl`]W]m`	5W`hY`hcl` ""%z`5W`hY`hcl` ""&z`5W`hY`hcl` ""`																		
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<`UnUfXci` g`hc` h\Y` Uei` Uh]WYbj`]fcba` Ybh`	5ei`Uh]W5W`hY`%z`5ei`Uh]W7` \fcb]W`%cf`&z`5ei`Uh]W7` \fcb]W`																		
FYgd]fUhc`fm`gYbg]h]nUh]cb`	FYgd`"GYbg`""%z`%5`cf`%6`																		
G_]b`gYbg]h]nUh]cb`	G_]b`GYbg`""%z`%5`cf`%6`																		
<p>J`Yf]Z]W]h]cb`</p> <p>H\Y` hYbXYfYf` a` i` gh`dfcj`]XY`XUH`f]a` UhYf]U` gUZY`m`XUH`g` \YY`h`UbX` Ua` ci` bH`cZ`h\Y`dfcXi` Wg` hc` VY`gi` dd`]YX`]b` h\Y` Yl` YW`h]cb` cZ`h\Y` Vt`bhUW]` DfcXi` Wg` h\Uh` \Uj` Y` VYYb` Uk` UfXYX` k]h` Ub` =GC` HmdY` =YVt`UVY` h\Uh`Vt`j` Yfg`h\YgY`gdYVY]Z]W]fYei`]fYa` Ybh`g`UfY`XYYa` YX` hc` Vt`a` d`m`</p>																			
<p>Note on de-icing and snow removal products <i>The contracting authority must ensure that the de-icing and snow removal products to</i></p>																			

be supplied are suited to the maintenance of public spaces (e.g., roads, pavements, drive-in and other municipal access areas). De-icing and snow removal products specifically designed for use in other applications e.g., on runways at airports are not covered by TS2

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F Uh]cbU`Y`

F YW`WUV`Y` UbX` cf[Ub]W a UhYf]U`g` a U`_Y` i d` h`Y` a U`cf]Imi cZ` di V`]Wk UghY`" 6ch` UfY`X]gdcgYX` Vmi h`Y` di V`]W]b`k UghY` fYW`dhUWYg`" 6]b` VU[g` fU`gc` _bck b` Ug` [UfVU[Y`cf` hfUg` VU[E` UfY` X]gdcgUV`Y` VU[g` i gYX` hc` V`bH]b` fi VV]g` fcf` [UfVU[Y`E`" H`Ymi Wb` VY` Ya d`cmYX`]bXYdYbXYbh m`z`cf` i gYX` hc`]bY` h`Y`]bg]XYg` cZ` k UghY` fYW`dhUWYg` hc` dfYj Ybh` h`Y`]bg]XYg` cZ` h`Y` fYW`dhUWY` Z`ca` VYV`a`]b[`V`UH`YX`]b`k UghY` a UhYf]U`" "

8YdYbX]b[`cb` h`Y` `cW` Ui h`cf]m`z` gYdUfUhYX` k UghY` fYW`dhUWYg` V`i` X` VY` a UXY` Uj U]UV`Y` Z`cf` fYW`WUV`Y` k UghY` UbX` cf[Ub]W k UghY` fYgdYW]j Y`m` FY[UfX`Ygg`cZ` h`]g`z` h`Y` V]b` VU[g` i gYX` hc`]bY` h`Y` fYW`dhUWYg` U`gc` YbX` i d`]b` h`Y` gUa` Y` hfYUha` Ybh`cf` X]gdcgU` ZUW]Imi Ug` h`Y` k UghY` h`Ymi V`bH]b`" 5g` V]b` VU[g` UfY` i gi U`m` a UXY` cZ` d`Ugh]V` UfY`]bhUWUV`Y` UbX` UfY` Uggc`V]UH`YX` k]h` bi a Yfci g` Ybj]fcb a YbhU`]ggi Yg`z` h`]g` W]hYf]cb` fYk UfXg` h`Y` i gY` cZ` V]cXY[fUXUV`Y` V]b` VU[g` Ug` h`]g` k`]` a U`_Y` h`Y` V`a` dcgh]b[`cf` cf[Ub]W XY[fUXUh]cb` cZ` V]ck UghY` YUg]Yf` hc` W]ffmi ci h`]Z` h`Y` V]ck UghY`]g` V``YW`YX` gYdUfUhY`mi UbX` dfcW`ggYX` Vmi V`a` dcgh]b[`d`Ubhg` h`Uh` UWV`dh` V`a` dcghUV`Y` VU[g`k`]h`ci h`gcfh]b[`h`Ya` `ci` h`"

7ca a Ybhg` fYW`]j YX` Z`ca` ghU`_Y`c`XYfg`cb` h`Y` HF`%`\$`cb` h`Y` W]hYf]cb` k YfY` dcg]h]j Y` Ug`]h` V`i` X` VY` Udd`]YX` Z`cf` a`]i YX` k UghY` fUbx` bch`cb`mi h`Y` cf[Ub]W Z`UW]cb`z` UbX` h`Uh`h`]g` V`i` X` VY` dcg]h]j Y` Z`cf` h`Y` fY[]cbg` UbX` V`i` bh]Yg`k`]h` U`_\` [` \` Yj` Y` cZ` `UbXZ`" 5b` UXX]h]cbU` gi [[Ygh]cb` h`Uh`]h`]g`cb`mi Udd`]WUV`Y`]Z` h`YfY`]g` gYdUfUh]cb` cZ`cf[Ub]Wk UghY`]b` d`UW` UbX` h`Y` V`a` dcghUV`Y` V]b` VU[g` UfY` bch`gcfhYX` ci h`Vmi h`Y` XYg][bUhYX` V`a` dcgh]b[`d`Ubh`k Ug` a UXY`" "

: fca` Ub` 9I` ; DD` dYfgdYW]j Yz` h`YgY` V`a` a Ybhg` UfY` U`fYUXmi V`bg]XYfYX`]b` h`Y` Yi]gh]b[`dfcdcgU`" H`YfYZcfY` h`Y` W]hYf]cb`]g` fYhU]bYX` k]h` UXX]h]cbU` hYI` h`dfcj`]XYX`]b` h`Y` fUh]cbU`Y` Ug` `i gh]Z]W]h]cb`" Gca` Y` UXX]h]cbU` Yei`]j U`Ybh` ghUbXUfXg` \Uj` Y` U`gc` VYYb`]bW` XYX` Ug` dUfh`cZ` h`Y` j` Yf]Z]W]h]cb` fYei`]fYa` Ybh`" "

7f]hYf]cb` DfcdcgU`

7cfY` W]hYf]U`	7ca` dfY` Ybg]j` Y` W]hYf]U`
5k` UfX` 7f]hYf]U`	
	<p>57%` 7ca` dcghUV`Y` V]b` VU[g`</p> <p>Note: This criterion applies if biowaste is collected separately and processed by industrial composting plants that accept compostable bags. Dc]bhg` k`]` VY` Uk` UfXYX`</p>

	<p>hc V]b VU[g i gYX hc Vt`YVh V]ck UghY h.Uh UfY Vta dcmhUVY UWVfX]b[hc ghUbXUfXg 9B %(- -) .&\$ \$+ž 9B % (' & .&\$ \$ž cf Yei]j UYbh'</p> <p>J Yf]Z]Vh]cb.</p> <p>HYbXYfYfg a i ghi dfYgYbh dfccZ cZ h\]fX dUfmi Wf]Z]Vh]cb]b UWVfXUbW k]h 9B %(- -) .&\$ \$+ž 9B % (' & .&\$ \$ž cf Yei]j UYbh'</p>
--	--

' "& 7f]hYf]U dfcdcgU`Zcf`ci hXccf`WYUb]b[`gYfj]Wg`

GVtdY`

Ci hXccf`WYUb]b[`gYfj]Wg`YbVta dUgg`hY`di fVUgY`cZ`gYfj]Wg`]XYbh]Z]YX`]b`
HF %"\$.

- A YW Ub]W` UbX` a Ubi U` gk YYd]b[`cZ` g]XYk U`ž` V]_Y` `UbYž` fcUX`
fUgd\ U`hž` fcUXVYX` UbX` fcUXg]XY` fb\ci` XYfgž` W` fVgž` [fYYb` UfYUgž`
- @]hYf` fYa` cj` U` Z`ca` h`Y` [fci` bX`
- 6]bgfi`]hYf` Vt`YVh]cb` UbX` gcfh]b[`
- A YW Ub]W` UbX` a Ubi U` k` Uhf` Yh`WYUb]b[`
- :` U,` UXY`#gi` fZ]W` WYUb]b[`
- ;` fUZ]h]` fYa` cj` U`
- Gbck` UbX`]W` fYa` cj` U` Z`ca` `g]XYk U`_gž` V]_Y` `UbYg` UbX` fcUXgž` gbck` !
WYUf]b[`gYfj]Wgž`]W!` WYUf]b[`gYfj]Wg`
- 6YUW` WYUb]b[`
- 7`YUb]b[`cZ`Zci` bhU]bgž` `U`_Yg` UbX` dcbXg`

=b` HF`&`\$ž` VYUW` WYUb]b[`]g` fYa` cj` YX` Z`ca` h`Y` gVtdY` cZ` WYUb]b[`gYfj]Wg`
Ug`]h`]g` U` gYUgcb` UW]j]m` k` \]V`]g` U`gc` \][` \`m` XYdYbXYbh` cb` h`Y` `cW`
VtbX]h]cbg"``

5`` a` UW`]bYfm` UbX` j` Y\]Wg` Ya` d`cmYX`]b` h`Y` dfcj`]g]cb` cZ` WYUb]b[`gYfj]Wg`
g\U`` fYgdYVh` h`Y` dfcdcgYX` 9I` ;` DD` W]hYf]U` Zcf` a` UW`]bYfm` UbX` j` Y\]Wg`]b`
7\UdhYfg`) `UbX` *` fYgdYVh] Y`m` Ug` k` Y`` Ug` h`Y` Vta` a` cb` W]hYf]U` Zcf` gYfj]W`
W]hY[cf]Yg`]b` 7\UdhYf` +``

' "&%" Di fVUgY`cZ`ci hXccf`WYUb]b[`dfcXi` Wg`

H`Y`di` fVUgY`cZ`ci` hXccf`WYUb]b[`dfcXi` Wg`]bW` XYX`]b`U`gYfj]W`cZ`Yf`a` i` gh`
Z`Z`]W]hYf]U`gdYV]Z]YX`]b`gYV]cb` ""

' "&"& C dYfU h]c bU` d f c W X i f Y g` U b X` V Y g h` d f U M] W g`

9a d`c m] b[` [c c X` c d Y f U h] c b U` d f c W X i f Y g` U b X` V Y g h` d f U M] W g` h` U h` f Y g i` h`] b` U` f Y X i W] c b` c Z` h` Y` i` g Y` c Z` W U b] b[` d f c X i W] g` W U b` g] [b] Z] W U b h i m` a] b] a] n Y` h` Y` Y b j] f c b a Y b h U`] a d U V] g` f Y g i` h] b[` Z f c a` h` Y` d f c j] g] c b` c Z` W U b] b[` g Y f j] W] g`

F U h] c b U` Y`

Weed control

H` Y` W U b] b[` c Z` d U j Y X` g i` f Z U W] g` W U b` U` g c` f Y e i] f Y` h` Y` Y`] a] b U h] c b` c Z` k Y Y X g` i` g] b[` \ Y f V] W] X Y g` < Y f V] W] X Y g` U f Y` g i` V g h U b W] g` h c l] W h c` d` U b h g z` U b X` U f Y` i` g Y X` h c` X Y g h f c m` i` b k U b h Y X` j Y [Y H U h] c b` G d f U m] b[` W X Y a] W] ` \ Y f V] W] X Y g`] g` h` Y` W X Y U d Y g h` k Y Y X` W e b h f c` a` Y h` c X` I` b Z c f h i b U H Y` n z` h`] g` W U i` g Y g` i` b k U b h Y X` g] X Y! Y Z Z Y W] g` k` \ Y b`] a` d f c d Y f` m` c f` c j` Y f` U d d`] Y X` H` Y` g] [b] Z] W U b h` g] X Y! Y Z Z Y W] g` h` Y` f i` b c Z Z` c Z` \ Y f V] W] X Y g`] b h c` g i` f Z U W] k` U h Y f` H`] g` \ U g` U X j` Y f g Y` Y Z Z Y W] g` c b` d` U b h i U b X` U b] a` U`] Z Y` V i` h` U` g c` c b` h` Y` d f c X i W] c b` c Z` X f] b`] b[` k` U h Y f` f i 7 U i` k` Y f` Y H` U` z` & \$ %` £` H` Y` g Y` d f c V` Y a` g` W U b` V Y` a`] h] [U h Y X` V m i a` Y U b g` c Z` [c c X` d f U M] W] g z` k` \ W] ` Y b g i` f Y` h` Y` d f c d Y f` U b X` a`] b] a` U` U d d`] W] h] c b` c Z` W X Y a] W] ` \ Y f V] W] X Y g` K` c f` _` U] a` Y X` U h` h` Y` X Y j` Y` c d a` Y b h` c Z` U` g i` g h U] b U V` Y` g m g h Y a` Z c f` k` Y Y X` a` U b U [Y a` Y b h i` Z c f` d U j` Y a` Y b h g` \ U g` V Y Y b` W e b X i W] X` g] b W] ` & \$ \$ &` i` b X Y f` h` Y` U i` g d] W] g` c Z` h` Y` G i` g h U] b U V` Y` K` Y Y X` W e b h f c` c b` D U j` Y a` Y b h g` f G K` 9 9 D` D F C > 9 7 H e` k`] h` z` b X] b[` Z f c a` h` Y` 9 i` @` 9` d f c [f U a` "

G K` 9 9 D` W e b g] g h g` c Z` U` X Y W] g] c b` g i` d d c f h i` g m g h Y a` h` U h i` h f U b g` U h Y g`] b Z c f a` U h] c b` c b` k` Y Y X` d f Y j` Y b h] c b` U b X` k` Y Y X` W e b h f c` a` Y h` c X g`] b h c` g] a` d` Y` [i`] X Y`] b Y g` Z c f` g i` g h U] b U V` Y` k` Y Y X` a` U b U [Y a` Y b h z`] Y` z` U` W e g h Y Z Z Y W] j` Y z` Y b j] f c b a` Y b h U` m l` Z f] Y b X` m i U b X` g c V] U` m i U W W] d h U V` Y` g m g h Y a` "

H` Y` G K` 9 9 D` a` Y h` c X` Y b h U] g` h` Y` U d d`] W] h] c b` c Z` \ Y f V] W] X Y g` f M m i a` Y U b g` c Z` g Y` Y W] j` Y` g d f U m] b[` h Y W] b] e i` Y g` £` h` k` c` h] a` Y g` d Y f` g Y U g c b` f c b` U j` Y f U [Y` V U g Y X` c b` U` a` i` h] ! m Y U f` d` U b e` U h i` h` c g Y` d` U W] g` k` \ Y f Y` \ Y f V] W] X Y` i` g Y` k` U g` d Y f a`] h Y X` k`] h] b` h` Y` g Y h` c Z` G K` 9 9 D` [i`] X Y`] b Y g` K` \ Y b Y j` Y f` b Y W] g g U f m z` V f i` g`] b [z` g k` Y Y d] b [z` V i` f b] b [` c f` a` c k] b [` U f Y` h c` V Y` W] f f] Y X` c i` h` U h` d` U W] g` k` \ Y f Y` \ Y f V] W] X Y` i` g Y`] g` b c h i` d Y f a`] h Y X` H` Y` W e b W] d h` \ U g` d f c j` Y X` h c` V Y` Y Z Z Y W] j` Y`] b` f Y X i W] b[` h` Y` U a` c i` b h` c Z` \ Y f V] W] X Y g` f i` b c Z Z` h c` g i` f Z U W] k` U h Y f` k` \ Y b`] a` d` Y a` Y b h Y X`] b` d f U M] W]] b` i` f V U b` U b X`] b X i` g h f] U` g] h Y g z`] b` h` Y` W U h W] a` Y b h U f Y U g` c Z` h` Y` F` \] b Y` U b X` A` Y i` g Y` "

< c k` Y j` Y f z` X i` Y` h c`] b W] Y U g] b [` U k` U f Y b Y g g` U V c i` h` h` Y` U X j` Y f g Y` Y Z Z Y W] c Z` h` Y` i` g Y` c Z` W X Y a] W] ` \ Y f V] W] X Y g z` b U h] c b U` U b X` c W] ` U i` h` c f] h] Y g` U f Y` f Y [i` U h] b [` a` c f Y` g h f] W] m z` h` Y` i` g Y` c Z` W X Y a] W] ` V U g Y X` d f c X i W] g` f i? f] g h c Z Z Y f g Y b` Y h` U` z` & \$ \$, £` 5` j` U f] Y h m i` c Z` U` h Y f b U h] j` Y` h Y W] b] e i` Y g` k` \ W] `] b W i` X Y` b c b! W X Y a] W] ` V U g Y X` d f c X i W] g` U b X` # c f` a` Y h` c X g` i` g Y X` Z c f` d Y g h i` W e b h f c` U b X` U f Y` Y g g` Y b j] f c b a` Y b h U` m] a` d U M] b [` h` U b` W X Y a] W] ` V U g Y X` c d h] c b g` U f Y` U j` U] U V` Y` H` Y` g Y` W e i` X` V Y` c f [U b] W` V U g Y X` k` Y Y X` _] Y f g` c f` a` Y W] U b] W] ` f M f i` g`] b [z` g k` Y Y d] b [z` a` c k] b [z` \ U b X` k` Y Y X] b [£` c f` h` Y f a` U` f Z U a`] b [z` \ c h i` k` U h Y f £` k` Y Y X` W e b h f c` a` Y h` c X g` H` Y` g Y` U` h Y f b U h] j` Y g` E` k` \ W] ` W e i` X` V Y` i` g Y X`] b` W e a` V] b U h] c b` !` U f Y` V Y] b [` d f c a` c h Y X` < c f h] W` h i` f U` c f [U b] W] j`] b Y [U f` f M e b h U] b g` & \$ i` U W] h] W` U W] X £` U b X` W U b` V Y` i` g Y X` U g` U b` c f [U b] W] k` Y Y X` _] Y f` < c k` Y j` Y f z`] h` \ U g` V Y Y b`

Zci bX'hc'VY'a cfY'YZZYVh]j Y'cb'VfcUX'YUZ'd'Ubhg'h\Ub'[fUggYgž'Ubbi U'g'h\Ub'
dYfYbb]U'gž' UbX']a a Uhi fY' gYYX']b[g' h\Ub' a Uhi fY' k YXXg' fK YVVYf' Yh U'ž'
&\$\$&ž' 9j Ubgi / ' 6Y''bXYfž' &\$\$- Ł'' 8Ygd]hY' h\]g']a]hUh]cbž' \cfh]W' hi fU'
cf[Ub]Wj]bY[Uf']g' U'j Yfm'YZZYVh]j Y'k YXX' Včbhf' U[Ybh' UbX']g' \Ufa' Ygg' hc'
h\Y'Ybj]fcba Ybh''

: fca' Ub' 9l' ; DD' dYfgdYVh]j Yž' h\YgY' a Yh\cXg' Y'ja]bUhY' h\Y' i gY' cZ
\YfV]VXYg' UbX' h\Y]f' UggcV]UhYX' f]g_gž' UbX' h\YfYzcfY' UfY' dfcdcgYX' Uh h\Y'
Vča dfY\Ybg]j Y''Yj Y''

Winter maintenance

H\Y' hfUX]h]cbU' a Yh\cXg' Zcf' k]bhYf' a U]bhYbUbW' UfY' ci h]bYX']b' gYVh]cb'
' "%&" 7ca dUfYX' hc' h\YgY' a Yh\cXgž' fY'Uh]j Y'mbYk Yf' a Yh\cXg' gi W' Ug' Ubh]!
]Wb[' UbX' dfY! k Yh]b[' cZZYf' UXXYX' VYbYz]hg' hc' gbck' fYa cj U' cdYfUh]cbg' Ug'
h\Ym' UVW' YfUH' h\Y' Vča a YbW' a Ybh' cZ h\Y' a Y'h]b[' dfcW'gg' Vm' X]fYVh'm
dfcj]X]b[' bYV'ggUfm]b]h]U' a c]ghi fY''

H\Y' X]i h]cb' UbX' Udd']W]h]cb' cZ Ubh]!]Wb[' UbX' XY!]Wb[' U[Ybhg' Xi f]b['
WYUb]b[' cdYfUh]cbg' Wb' \Uj Y' U' bY[Uh]j Y' YZZYVh' cb' j Y[YhUh]cbž' gi fZUV' UbX'
[fci bX' k UhYf' Uei]ZYfg' Ug']h']bWYUgYg' h\Y' gU']b]hmicZ ZYg\k UhYf' YVčgmgYa g'
]b' dfcl]a]hm'hc' gU'hYX' fcUXg' f?Ui g\U' Yh' Už' &\$\$) Łž' fF Ua U_f]g\ bU' 8"A' /
J]fUfU[\Uj Ubž' &\$\$) Ł' f?cf]gž' Yh' Už' &\$\$Łž' f?Uk YXc! 5f[~ Y'Ygž' Yh' Už'
&\$\$* Łž' f? YZcfX' Yh' Už' &\$\$* Ł'' H\YfYzcfY' YZcfhg' a i ghi VY' a UXY' hc' i gY' h\Y'
a cgh' Ybj]fcba Ybh' U'm' Z]YbX'm' XY!]Wb[' UbX' Ubh]! ZFYn]b[' U[Ybhgž' UbX' U'gc'
fYXi W' h\Y]f' i gY' h\ fci [\ ' a cfY' YZZYVh]b' Udd']W]h]cb' UbX' VYgh' dfUW]W'g''
H\YfYzcfYž' gdfYUX]b[' a UVW']bYg' g\ci' X' Vča d'm' k]h' h\Y' fYei]fYa Ybhg' cZ
f?B %)) - +! %ž' &\$\$+Łž' UbX' f?B %)) - +! &ž' &\$\$+Ł''

5g' h\Y' YZZYVh]j YbYgg' cZ h\YgY' dfcXi W'g']g' \] [\ 'm' XYdYbXYbh' cb' j Uf]ci g'
ZUVčfg']bW' X]b[' gbck' a c]ghi fY' VčbhYbž' U]f' UbX' gi fZUV' hYa dYfUi fYgž'
UbX' k]bXž']h']g']a dcfhUbh' hc' VY' UV'Y' hc' XYhYfa]bY' h\Y' cdh]a U' Udd']W]h]cb'
fUhYg' Zcf' gdYVZ]Wk YUH' Yf' Yj Ybhg' UbX' dUj Ya Ybh' VčbX]h]cbg'' =h' a] [\ h' U'gc'
VY' bYV'ggUfm'hc' Udd' m' U' Vča V]bUh]cb' cZ W'Ya]W' UbX' UVfUg]j Y' a UhYf]U'g' hc'
cVh]b[h\Y' XYg]fYX' fYgi 'hg'' H\YfYzcfYž' h\Y' i gY' cZ 'cW' m' Udd']W]V'Y'
[i]XY']bYg']b' XYhYfa]b]b[' h\Y' VYgh' Udd']W]h]cb' fUH' Zcf' h\Y' gdYVZ]YX' Zcfa' cf'
hnd' cZ di V']WgdUVW' Xi f]b[' gbck' a U]bhYbUbW' VčbhfUVh']g' fYVča a YbXYX' Ug'
k Y'' hfU]bYX' UbX' Vča dYhYbh' dYfgcbbY' UfY' YggYbh]U' fGYVh]cb' + XYh]]g'
W]hYf]U' fY' UhYX' hc' Vča dYhYbW' UbX' hfU]b]b[Ł'' GYj YfU' Uj U] UV'Y' fYgci fW'g'
Vči 'X' VY' UXcdhYX' Ug' [i]XYg']b' XYhYfa]b]b[' h\Y' VYgh' Uj U] UV'Y' dfUW]W'g'
gi]hYX' hc' 'cW' VčbX]h]cbg' fGbck' UbX' =W' 8 UhUVcc_ž' &\$\$ (Łž' fK]bhYf' Duf_]b['
@ch'UbX'G]XYk U'_ A U]bhYbUbW' A Ubi Už' &\$\$) Łž' fB' VYfgž' &\$\$) Ł''

Dust suppression

Hc`fYXi`W`h`Y`Y`g`cZ`fYgd`fUV`Y`DA`%\$`ghfYYh`Xi`gh`]b`i`fVUb`UfYUgž`]h`]g`
]a`dcfHUbh`hc`Udd`m`VYgh`a`U]bhYbUbW`dfUW]Vg`]b`h`Y`Z]Y`Xg`cZ`hfUW]cb`
Včbhf`c`ž`Xi`gh`gi`ddfYgg]cb`UbX`ghfYYh`WYUb]b[`"

Gh`XXYX`k`]bhYf`mfYg`Uj`Y`VYYb`cVgYfj`YX`hc`ei`]W`m`]bWYUgY`ghfYYh`Xi`gh`
Ya`]gg]cbg`k`Yb`h`Y`k`]bhYf`mfY`gYUgcb`ghUfhgž`Yj`Yb`VYZcfY`Ubmi`hfUW]cb`
gUbX]b[`a`UhYf]U`Ug`VYYb`i`gYX`H`]g`YZZYVh`Ug`VYYb`cVgYfj`YX`fYdYUhYX`m`
Uh`h`Y`U]f`ei`U]m`a`cb]rcf]b[`ghU]cbg`cZ`Vi`gmi`hfUZZ]W`Ybj`]f`cba`Ybhg`
A`YUgi`fYa`Ybhg`dYfZcfa`YX`Xi`f]b[`gYj`YfU`gh`X]Yg`fF`98I`GH`&`\$`%`Ł`gi`ddcfh`
h`Y`m`dch`Yg]g`h`Uh`fYXi`V]b[`h`Y`g`UfY`cZ`gh`XXYX`mfYg`k`ci`X`XYWYUgY`
ghfYYh`Xi`gh`cf][`]bU]b[`Z`ca`dUj`Ya`Ybh`k`YUf`"

HfUW]cb`gUbX]b[`]g`i`gYX`]b`bcfh`Yfb`Vč`i`bf]Yg`Xi`f]b[`k`]bhYf`XYdYbX]b[`cb`
k`YU`h`Yf`UbX`c`W`dfUW]Vg`A`cgh`Vč`a`a`cb`mž`hfUW]cb`gUbX]b[`]g`i`gYX`cb`
k`U`_`k`Umgž`ghU]fgž`VW`V`dUh`gž`]bhYfgYV]cbg`UbX`Vi`g`ghcdg`HfUW]cb`
gUbX]b[`]bWYUgYg`Xi`gh`Ya`]gg]cbgž`YgdYV]U`m`]Z`h`Y`ei`U]m`cZ`h`Y`fcW`
a`UhYf]U`i`gYX`Zcf`hfUW]cb`gUbX]b[`]k`Ug`gi`V!`cdh]a`U`"K`Yh`g]Yj`YX`UbX`k`YUf`
fYg]ghUbh`fcW`a`UhYf]U`Z`ca`k`]W`ga`U`Ygh`g]nY`Z`UW]cbg`fD`%`&`a`a`Ł`Uj`Y`
VYYb`fYa`cj`YXž`g`ci`X`VY`i`gYX`k`Yb`hfUW]cb`gUbX]b[`]g`Udd`]YX`Ug`h`Ymi`
W]i`gY`Ygg`g`cfh`hYfa`Ya`]gg]cbg`h`Ub`Xfmig]Yj`YX`a`UhYf]U`"B`cb!`g]Yj`YX`UbX`
Z]bY`[`fU]bYX`hfUW]cb`gUbX]b[`]a`UhYf]U`g`ci`X`U`gc`VY`Uj`c]XYX`VYW]i`gY`h`Ymi`
VčbH]b`U`Uf`Y`dfcdcfh]cb`cZ`DA`%\$`Xi`gh`Zcfa`]b[`]Vč`a`dcb`Ybhg`"

8i`gh`V]bX]b[`]i`g]b[`]U`j`Uf]YhmcZ`Xi`gh`gi`ddfYgg]b[`#V]bX]b[`]dfcXi`Wg`k`Ug`U`gc`
Zci`bX`hc`VY`h`Y`a`cgh`Vč`gh`YZZ]V]Ybhi`a`Yh`cX`hc`XYWYUgY`DA`%\$`Ya`]gg]cbg`
HUf`[`YhYX`gdfYUX]b[`]cZ`Xi`gh`V]bX]b[`]gc`i`h]cb`]g`fYVč`a`a`Yb`XYX`Ug`h`Y`a`U]b`
hYV]b]ei`Y`hc`XYWYUgY`h`Y`dcgg]V]m`cZ`Ufa`Z`g]XY`YZZYVg`gi`W`Ug`
Včffcg]cbž`Ybj`]f`cba`YbhU`YZZYVg`cf`fYXi`W`X`hfUW]cb`cb`ghfYYhg`Hmd]W]mž`
U`[`ccX`h]a`Y`hc`dYfZcfa`Xi`gh`V]bX]b[`]k`]h`7U7`&`k`ci`X`VY`k`Yb`U]f`
\\i`a`]X]m]g`gh]`\\][`ž`Zcf`Yi`Ua`d`Y`j`Yfm`YUf`m]b`h`Y`a`cfb]b[`]VYZcfY`fi`g`!
\\ci`f`"

5j`U]UV`Y`gh`X]Yg`cb`h`Y`i`gY`cZ`gU`hg`UbX`UW`hUhYg`Zcf`Xi`gh`gi`ddfYgg]cb`
g`ck`X]gVčfXUbh`fYgi`hg`8i`gh`gi`ddfYgg]Ubhg`UfY`YZZYV]j`Y`k`YfY`h`Y`fcUX`
Xi`gh`cUX`]g`\\][`ž`gi`W`Ug`]b`fY`[`]cb`k`YfY`h`Y`i`gY`cZ`gh`XXYX`h]fYg`UbX`XY`
]V]b[`]U`[`Ybhg`YUX`hc`\\][`DA`%\$`VčbW`bhfU]cbg`k`Yb`h`Y`gbck`a`Y`hg`]b`h`Y`
gdf]b[`]H`Y`YZZYV]j`YbYgg`cZ`Xi`gh`gi`ddfYgg]Ubh`Ug`VYYb`bch]W`X`]b`fY`[`]cbg`
k`]h`fY`Uh]j`Y`m`k`Yh`W]a`UhYg`fG`W]bX]bUj`]Už`BY`h`Yf`UbXgž`I`?`ž`Yfa`Ubnž`
5i`ghf]U`UbX`Bcfh`=H]nt`"

5W`V`fX]b[`]hc`h`Y`5`=I`G9`dfc`Y`Vč`Zcf`Gci`h`Yfb`9i`fcdYž`k`YfY`gc`Uf`
fUX]Uh]cb`]g`\\][`Yfž`ghfYYh`k`Ug`]b[`]Ug`VYYb`g`ck`b`Ug`U`a`cfY`YZZYV]j`Y`
a`Yh`cX`Zcf`Xi`gh`gi`ddfYgg]cb`Vč`a`dUfYX`k`]h`V]bX]b[`]U`[`Ybh`gdfYUX]b[`]f`
f]i`fcdYUb`7`ca`a`]gg]cbž`&`\$`%`Ł`"

8i`gh`gi`ddfYgg]cb`W]b`U`gc`VY`UW]Yj`YX`Vm]ghfYYh`gk`YYd]b[`]H`YfY`UfY`h`fYY`
df]bV]dU`hmdYg`cZ`ghfYYh`gk`YYd]b[`]hYV]bc`c[`]Yg`h`Uh`UfY`fYVč`[`]nYX`
a`YV]Ub]W]V`fcca`gk`YYdYfgž`j`UW]i`a`gk`YYdYfg`UbX`fY`[`YbYfUh]j`Y`U]f`
gk`YYdYfg`A`cXYfb`ghfYYh`gV]i`VYVfg`k`]h`W]dh]j`Y`mXfc`c[`]mi`Uj`Y`VYYb`

Zci bX' hc' VY' hY' a cgh YZZYVWj Y' ghfYYh WYUb]b[' hYVXb]ei Y'' =h]g' YgdYVU`m
YZZ]VYbh k \Yb' i gYX' cb' j Yfm X]fmi ghfYYhgž' k \]VX' \Uj Y' \][\ ' cUX' cZ' Z]bY'
ghfYYh Xi gh' a Uhyf]U'' 9a]gg]cbg' WUb' VY' fYXi VVX' Vmi d' hc' (\$i' Xi f]b[' hY'
Z]fgh' XUm UZhf' hfYUha Ybh UbX' &\$i' ' Vm Uj YfU[Y' Xi f]b[' hY' Z]fgh' k YY' _UZhf'
hfYUha Ybh' fF 98I GH' &\$%(E'' HfUX]h]cbU' j UW i a' gk YYd]b[' UcbY' \Ug' bch'
dfcj YX' Vta d'YHY' mi YZZYVWj Y']b' fYXi V]b[' DA %\$' ghfYYh Xi gh' Yj Y' gž' d'cgg]V' mi
VYWli gY']h' XcYg' bch' fYa cj Y' hY' Z]bYgh' Xi gh' Zfca' hY' dcfYg' cZ' ghfYYh'
gi fZUVWg' K \Yb' hfUX]h]cbU' j UW i a' gk YYdYfg' k YfY' i gYX']b' Vtb' i' bV]cb' k]h'
U' gYdUfUHY' k Ug\]b[' cffnž' k \]VX' Zi g\YX' hY' ghfYYh' k]h' \][\ ' dfYggi fY'
k Uhyf' gdfUmg' fVta V]bU]cb' WYUb]b[Ež' fYXi V]cbg']b' DA %\$' ghfYYh' Xi gh'
Ya]gg]cbg' k YfY' UVX']Yj YX'' H Y' _Ym ZYUhi fY' hc' UVX']Yj Y' fYXi V]cb']b' DA %\$'
ghfYYh' Xi gh']g' VY']Yj YX' hc' VY' hY' \][\ ' dfYggi fY' k Uhyf' k Ug\]b[']b' Vch'
a cXYfb' ghfYYh' gWi VVYf' a UVX']bYfm]g' fYVta a YbXYX' hc' UVX']Yj Y' hY' VYgh'
ghfYYh' WYUb]b[' fYgi' h' Zcf' DA %\$' Ya]gg]cb' fYXi V]cbg'' HfUX]h]cbU' j UW i a'
gk YYdYf' a Umigh' VY' YZZ]VYbh' hc' fYXi V' Uf[Yf' g]nY' Z' UV]cbg' cZ' ghfYYh' Xi gh'
Vi h' U' Vta V]bU]cb' cZ' WYUb]b[' hYVXb]ei Yg' a Um VY' bYYXYX' hc' fYXi V' DA %\$'
Ya]gg]cbg'' GhfYYh' WYUb]b[' g\ci' X' VY' XcbY' Ug' YUf' mi Ug' dfUV]VW' mi d'cgg]V' Y''
Df]cf]mi g\ci' X' VY' []j Yb' hc' Vi gm UbX' j Yfm Xi gmi ghfYYhgž' k \YfY' a Ubm'
]b\UV]hU]bhg' cf' dYXYghf]Ubg UfY' Yl d'cgYX' hc' U]f' dc'' i hU]bhg'' H\]g' ghfUHY[m\Ug'
VYYb' d'fcj Yb' hc' VY' Vtgh' YZZ]VYbh' UbX' YZZYVWj Y']b' DA %\$' Xi gh' fYXi V]cb''

A cXYfb' ghfYYh' gWi VVYf' a UVX']bYfm]g' fYVta a YbXYX' hc' UVX']Yj Y' hY' VYgh'
ghfYYh' WYUb]b[' fYgi' h' Zcf' DA %\$' Ya]gg]cb' fYXi V]cbg'' HfUX]h]cbU' j UW i a'
gk YYdYf' a Umigh' VY' YZZ]VYbh' hc' fYXi V' Uf[Yf' g]nY' Z' UV]cbg' cZ' ghfYYh' Xi gh'
Vi h' U' Vta V]bU]cb' cZ' WYUb]b[' hYVXb]ei Yg' a Um VY' bYYXYX' hc' fYXi V' DA %\$'
Ya]gg]cbg'' GhfYYh' WYUb]b[' g\ci' X' VY' XcbY' Ug' YUf' mi Ug' dfUV]VW' mi d'cgg]V' Y''
Df]cf]mi g\ci' X' VY' []j Yb' hc' Vi gm UbX' j Yfm Xi gmi ghfYYhgž' k \YfY' a Ubm'
]b\UV]hU]bhg' cf' dYXYghf]Ubg UfY' Yl d'cgYX' hc' U]f' dc'' i hU]bhg'' H\]g' ghfUHY[m\Ug'
VYYb' d'fcj Yb' hc' VY' Vtgh' YZZ]VYbh' UbX' YZZYVWj Y']b' DA %\$' Xi gh' fYXi V]cb''

5' gYh' cZ' W]hyf]U' hUhi [U\Yfg' hY' VYgh' dfUV]VWg']b' cfXYf' hc' fYXi V' hY'
Ybj]fcb' a YbhU']a dUVh' cZ' hY' WYUb]b[' UV]]h]Yg']g' dfYgYbhYX' VY' ck'' Di V']W'
Ui h\cf]h]Yg' UfY' UXj]gYX' hc' gY' VVh' hY' a cgh' Udd' f' cdf]UHY' dfUV]VWg' VYgh' gi]hYX'
hc' hY' fYei YghYX' WYUb]b[' gYfj]W' UbX' hY' cW' VtbX]h]cbg' fdfYV]d]hU]cbž'
fcUX' VtbX]h]cbg' UbX' k YUH' YfE''

: fca' hY' 5 < K ; %' Vtbg' i hU]cbž' cbY' fYW' ff]b[' Vta a Ybh' Zfca' ghU_Y\c' XYfg'
cb' hY' WYUb]b[' gYfj]W' g' W]hyf]U' k Ug' hc' XYg][b' hY' hYVXb]W' gdYVZ]VW]cbg'
hc' Ybgi fY' h' Uhi hY' i gY' cZ' VVYa]W' d'fcXi V]g']g' Y']a]bUHYX'' H\ YgY' \Uj Y' VYYb'
hU_Yb']bhc' Vtbg]XYfU]cb']b' hY' fYZfca' i' U]cb' cZ' hY' Yl]gh]b[' W]hyf]U'' 5' gcž'
UXX]h]cbU' W]hyf]Už']bV' X]b[' Vtb' hfUVh' dYfZfca' UbW' WUi gYg' k \]VX' UfY' U]a YX'
Uh' fYXi V]b[' hY' Udd']W]cb' cZ' VVYa]W' d'fcXi V]g']b' Vtb' i' bV]cb' k]h' VYgh'
dfUV]VW' \Uj Y' VYYb' d'fcd'cgYX''

' "&"&"% Gi a a UfmcZ'ghU_Y\c'XYfg'Vta a Ybhg'Zfca'
5 < K ; &

5' ghU_Y\c'XYf' fYei YghYX' WUf]Z]W]h]cb' cb' k \Yh' Yf' dfY! k Yh]b[' cZ' dUhg' k Ug'
a cfY' Udd']WV' Y' hc' XY!]W]b[' cf' Xi gh' V]bX]b[' a Yh' cXg' fHG) E'' 5XX]h]cbU' mž']h'
k Ug' ghUHYX' h' Uhi Ubh]!]W]b[' U[Ybhg' Vti' X' WYUHY' Ybj]fcb' a YbhU' d'fcV' Ya' g' Vi h'
h\]g']ggi Y' k Ug' bch' UXX' fYggYX']b' hY' W]hyf]U'' :]bU' mž' U' gi [[Ygh]cb' k Ug'
a UXY' h' Uhi U' Vtb' hfUVh' dYfZfca']b[' WUi gY' fYei]f]b[' hY' gi dd']Yf' hc' \Uj Y'
fci h]bYg' hc' XYWYUgY' hY' i gY' cZ' fcUX' gU' hg' VY']b' Vt' f' d' c' f' UHYX']bhc' hY'
XcW' a Ybh' H Y' gUa Y' ghU_Y\c'XYf' a Ybh]cbYX' h' Uhi hY' Zfca' i' U]cb' cZ' hY'
W]hyf]U' cb' \YfV]VXYg' Uh' hY' Vta dfY\Ybg]j Y' Yj Y' k ci' X' fYgi' h']b' hY'
Yl V]g]cb' cZ' j]bY[Uf' k \]VX']g' Ub' YZZYVWj Y' k YXX' Vtb' f' c' VVYa]W' UbX']g'

\Ufa `Ygg` hc` h\Y` Ybj]fcb a Ybh` =h` k Ug` gi [[YghYX` h\Uh` h\Y` W`ffYbh` V`fY`
W`hYf]U`VY`fYd`UW`X`k]h` h\Y` V`a` dfY`Ybg]j` Y`W`hYf]U`Vi`h`k]h` Ub`YI`W`dh]cb`
Zcf`h\Y`Udd`]W`h]cb`cZ`j]bY[Uf` <ck` Yj` Yfz`h\Uh`]b`gdYW`Z]Wg]h` Uh]cbg`z`k` \YfY`]h`
]g`]a`dcgg]V`Y`hc`Uj`c]X`i`g]b[`k`YYX`_]`Yfg`ch`Yf`h\Ub`j`]bY[Uf`cf`dYgh]W`XYg`z`
Ub`YI`W`dh]cb`a`Um`VY`X]gW`ggYX`k]h` h\Y`W`]Ybh`UbX`Ubmi`U[fYYa`Ybh`fYUW`YX`
a`i`gh`VY`k`f]hYb`"

5bch`Yf`ghU`_`Y`c`XYf`dc]bhYX`ci`h`h\Uh`h\YfY`UfY`V`gh`V`bW`fbg`UVci`h`h\Y`
i`gY`cZ`U`hYfbUh]`Yg`hc`fcUX`gU`h`k` \]W`dfYj`Ybh`h\Y`UXa`]b]ghfUh]cbg`Zfca`
gi`Vgh]h`h]b[`h\Y`i`gY`cZ`gcX]i`a`W`cf]XY`"

H\YfY`]g` U` Z` bXUa`YbhU` X]ZZYfYbW` VYrk`YYb`XY!]W`b[`UbX`Ubh!]W`b[`
cdYfUh]cbg`"H\Y`Zcfa`Yf`]g`h\Y`fYUW`h]`Y`Udd`]W`h]cb`cZ`]W`!`V`bhf`c`dfcXi`W`g`hc`
gi`fZUW`g`hc`a`Y`h`YI`]gh]b[`gbck`UbX`]W`z`UbX`h\Y`U`hYf`]g`h\Y`dfcUW`h]`Y`
Udd`]W`h]cb`cZ`a`Y`h]b[`dfcXi`W`g`f`fcW`_`gU`h`z`]W`a`Y`h`z`W`W`i`a`W`cf]XY`E`hc`
gi`fZUW`g`VY`ZcfY`U`g`h`c`fa`" H\YgY`dfcW`ggYg`UfY`bch`h\Y`gUa`Y`Ug`Xi`gh`
V]bX]b[`k` \]W` \Ug`U`gdYW`Z]W`W`hYf]cb`!`fYXi`W`h]cb`cZ`DA`%\$`ghfYYh`Xi`gh`
fHG`*`E`"

A`cfY`cj`Yfz`]h` \Ug`VYYb`XcW`a`YbhYX`h\Uh`XY!]W`b[`UbX`gbck`fYa`cj`U`
cdYfUh]cbg`k` \]W`UfY`]a`d`Ya`YbhYX`Vm`U`V`a`V]bUh]cb`cZ`Ubmi`cZ`h\Y`
hYW`b]ei`Yg`dfYgYbhYX`]b`HG)`cZ`HF`&`\$`V`i`X`fYXi`W`h\Y`i`gY`cZ`V`bj`Ybh]cbU`
fcUX`gU`hg`UbX`W`Ya`]W`i`gY`UbX`dfcXi`W`cd]h`a`U`fYgi`hg` <ck`Yj`Yfz`h\Y`
W`c]W`cZ`a`Y`h`c`X`cf`V`a`V]bUh]cb`cZ`a`Y`h`c`Xg`]g` \][` \`m`XYdYbXYbh`cb`h\Y`
gdYW`Z]W`k`YU`h`Yf`UbX`gi`fZUW`V`b`X]h]cb`" 5XX]h]cbU`n`z`h\Y`hYW`b]W`
gdYW`Z]W`h]cb`cb`9bj`]fcb a`YbhU`A`UbU[`Ya`Ybh`A`YUgi`fYg`fHG`%`]b`7` \UdhYf`+`E`
UXXfYggYg`h\Y`fYXi`W`h]cb`]b`h\Y`i`gY`cZ`gbck`fYa`cj`U`U[`Ybhg`UbX`]h`]g`U`gc`
fYZfYbW`X`]b`h\Y`j`Yf]Z]W`h]cb`fYei`]fYa`Ybh`cZ`h\Y`HG)`Zcf`XY!]W`b[`UbX`gbck`
fYa`cj`U`cdYfUh]cbg`":`cf`h\YgY`fYUgcbg`z`U`bYk`7`D7`Ug`gi` [[YghYX`k`ci`X`VY`
fYXi`bXUbh`z`UbX`h\Y`gi` [[Ygh]cb`]g`bch`Z`f`h`Yf`V`bg]XYfYX`"

:]bU`m`]h`k`Ug`fYV`a`a`YbXYX`h\Uh`gdYfYUX]b[`a`UW`]bYg`g`l`ci`X`V`a`d`m`k`]h`
h\Y`fYei`]fYa`Ybhg`cZ`9B`%)`-`+`%`UbX`9B`%)`-`+`!`&`]b`h\Y`V`bhYI`h`cZ`k`]bhYf`
a`U]bhYbUbW`"

H\YfY`]g` Yj`]XYbW`h\Uh` \cfh]W`h`fU`cf[`Ub]W`j`]bY[`Uf`W`b`VY`i`gYX`Ug`Ub`
cf[`Ub]W`k`YYX`_]`Yf` <ck`Yj`Yfz`h\Y`gi` [[YghYX`W`Ub[`Y`hc`h\Y`V`fY`W`hYf]U`]g`
bch`V`bg]XYfYX`VYW`i`gY`hc`cV`h]b`YZZYW`h]`Y`V`bhf`c`z`a`cfY`ZfYei`Ybh`mi`
fYdYU`hYX`hfYU`h`a`Ybhg`UfY`fYei`]fYX`h\Ub`k`YYX`a`UbU[`Ya`Ybh`]bj`c`]b[`h\Y`
i`gY`cZ` \YfV]W`XYg`z`fYgi`h]b[`]b`]bW`YUgYX`U`Vcf`UbX`Z`Y`V`ghg`":`cf`h\Y`
di`fdcgY`cZ`DGA`gi`W`U`W`hYf]U`Zcfa`i`Uh]cb`a`Umibch`VY`dfUW`h]W`m`ZYUg]V`Y`"
H\YfY`ZcfY`z`h\Y`W`ffYbh`Zcfa`i`Uh]cb`cZ`h\Y`W`hYf]U`]g`fYh]bYX`Vi`h`k`]h`Ub`
Ua`YbXa`Ybh`hc`YbUV`Y`h\Y`i`gY`cZ` \cfh]W`h`fU`cf[`Ub]W`j`]bY[`Uf`Uh`h\Y`
V`a`dfY`Ybg]j`Y`Yj`Y`"

H\Y`fYV`a`a`YbXUh]cbg`cb`h\Y`Uddfcdf]UhY`ghUbXUfXg`Zcf`gdfYUX]b[`
a`UW`]bYg`f9B`%)`-`+`%`UbX`9B`%)`-`+`!`&`UfY`hU`_`Yb`i`d`UbX`UfY`fYZYW`X`]b`
h\Y`hYI`h`":`]bU`n`z`h\Y`Zcfa`i`Uh]cb`cZ`7D7`%`cb`WYUb]b[`gYfj`]W`g`d`Ub` \Ug`
VYYb`fYj`]Yk`YX`hc`fYei`]fY`h\Y`"i`gY`cZ`Ygg`WYUb]b[`U[`Ybhg`UbX`gi`Vgh]h`h]cb`
Vm`Ygg`Ybj`]fcb a`YbhU`m`i`bk`UbhYX`dfcXi`W`g`" Ug`gi` [[YghYX`Vm`U`
ghU`_`Y`c`XYf`"

7f]hYf]cb`Dfc dcbgU`

7cfY`W]hYf]U`	7ca dfY\Ybg]j Y`W]hYf]U`
<p>HYWb]W`GdYVZ]W]h]cbg`</p>	
<p>HG`" 7`YU]b[ž`XY!]V]b[`UbX`gbck`fYa`cj`U`dfcXi`W]g`i`gYX`Zcf`h`Y`dfcj`g]cb`cZ`WU]b[`gYfj`]W]g`</p> <p>i`h`Y`WU]b[`dfcXi`W]g`i`gYX`Zcf`h`Y`dfcj`g]cb`cZ`h`Y`WU]b[`gYfj`]W]g`a`i`gh`VY`Vta`d`]Ubh`k`]h`h`Y`fYei`]fYa`Ybhg`cZ`h`Y`fY`Yj`Ubh`h`Y`W]b]W]g`gdYVZ]W]h]cbg`fHG%&`Uh`7cfY`Yj`Y`"</p> <p>i`h`Y`XY!]V]b[`UbX`gbck`fYa`cj`U`dfcXi`W]g`i`gYX`Zcf`h`Y`dfcj`g]cb`cZ`h`Y`WU]b[`gYfj`]W]g`a`i`gh`VY`Vta`d`]Ubh`k`]h`h`Y`fYei`]fYa`Ybhg`cZ`h`Y`fY`Yj`Ubh`h`Y`W]b]W]g`gdYVZ]W]h]cbg`fHG&`Uh`7cfY`Yj`Y`"</p> <p>J`Yf]Z]W]h]cb.`</p> <p>GYY`h`Y`j`Yf]Z]W]h]cb`cZ`h`Y`fY`Yj`Ubh`h`Y`W]b]W]g`gdYVZ]W]h]cbg`"</p>	<p>HG`" 7`YU]b[ž`XY!]V]b[`UbX`gbck`fYa`cj`U`dfcXi`W]g`i`gYX`Zcf`h`Y`dfcj`g]cb`cZ`WU]b[`gYfj`]W]g`</p> <p>i`h`Y`WU]b[`dfcXi`W]g`i`gYX`Zcf`h`Y`dfcj`g]cb`cZ`h`Y`WU]b[`gYfj`]W]g`a`i`gh`VY`Vta`d`]Ubh`k`]h`h`Y`fYei`]fYa`Ybhg`cZ`h`Y`fY`Yj`Ubh`h`Y`W]b]W]g`gdYVZ]W]h]cbg`fHG%&`Uh`7ca`dfY\Ybg]j`Y`Yj`Y`"</p> <p>i`h`Y`XY!]V]b[`UbX`gbck`fYa`cj`U`dfcXi`W]g`i`gYX`Zcf`h`Y`dfcj`g]cb`cZ`h`Y`WU]b[`gYfj`]W]g`a`i`gh`VY`Vta`d`]Ubh`k`]h`h`Y`fYei`]fYa`Ybhg`cZ`h`Y`fY`Yj`Ubh`h`Y`W]b]W]g`gdYVZ]W]h]cbg`fHG&`Uh`7ca`dfY\Ybg]j`Y`Yj`Y`"</p> <p>J`Yf]Z]W]h]cb.`</p> <p>GYY`h`Y`j`Yf]Z]W]h]cb`cZ`h`Y`fY`Yj`Ubh`h`Y`W]b]W]g`gdYVZ]W]h]cbg`"</p>
<p>7cfY`W]hYf]U`</p>	<p>7ca dfY\Ybg]j Y`W]hYf]U`</p>
<p>HYWb]W`GdYVZ]W]h]cbg`</p>	
<p>HG`("8Y!]V]b[`UbX`gbck`fYa`cj`U`cdYfU]h]cbg` (Same formulation for Core and Comprehensive level)</p> <p>H`Y`h`Yb`XY`fYfg`a`i`gh`\Uj`Y`k`f]h`Yb`dfc`W]Xi`fYg`cb`XY!]V]b[`UbX`gbck`fYa`cj`U`cdYfU]h]cbg`k`\]W`a`i`gh`VY`]a`d`Ya`Ybh`X`Vm`U`Vta`V]b]U]h]cb`cZ`UbmcZ`h`Y`Zc`ck`]b[`h`Y`W]b]ei`Yg.</p> <ul style="list-style-type: none"> - Mechanical removal of snow (shovelling, brushing, ploughing and scraping combinations) - Anti-icing - Prewetting (based on an adjustment to the variable application rate) <p>J`Yf]Z]W]h]cb.`</p> <p>H`Yb`XY`fYfg`a`i`gh`dfcj`]XY`k`f]h`Yb`dfc`W]Xi`fYg`UbX`U`XY!]V]b[`UbX`gbck`fYa`cj`U`d`Ub`f]b`U`W]f`X`Ub`W`k`]h`h`Y`Udd`]W]V`Y`Y`Ya`Ybhg`cZ`h`Y`Vta`a`cb`W]hYf]U`Zcf`gYfj`]W]W]h]Y[cf]Yg`HG%`9bj`]f`cba`Ybh`U`A`UbU[`Ya`Ybh`A`YUgi`fYgk`]b]W]X]b[`Yei`]da`Ybh`UbX`dfcXi`W]g`hc`VY`Ya`d`cn`Y`X`]b`h`Y`YI`Y`W]h]cb`cZ`h`Y`Vta`b`f`U`W]g`"</p>	
<p>HG`("FYXi`W]cb`cZ`DA`%\$`ghfYYh`Xi`gh` (Same formulation for Core and Comprehensive level)</p> <p>H`Y`h`Yb`XY`fYfg`a`i`gh`\Uj`Y`k`f]h`Yb`dfc`W]Xi`fYg`cb`DA`%\$`ghfYYh`Xi`gh`fYXi`W]cb`a`YUgi`fYg`k`\]W`a`i`gh`VY`]a`d`Ya`Ybh`X`V`ma`Y`Ubg`cZ`h`Y`Zc`ck`]b[`VYgh`df`U`W]W]g`cf`ch`Y`f`fY`Yj`Ubh`a`YUgi`fYg.`</p> <p>!`H`f`U`W]cb`Vta`b`f`c`df`U`W]W]g`f`H`f`U`W]cb`g`UbX]b[`i`g]b[`k`Y`hg]Yj`YX`UbX`k`YUf`fYg]gh`Ubh`fc`W`a`Uh`Yf]U`k`/`</p>	

<p>! =a d`Ya Ybh`Xi gh`V]bX]b[`dfUW]W]g`fKi gh`V]bX]b[`gc`i h]cbgž`X]gdYfg]cb`hYVb]jei YgŁ/` !` GhfYYh` WYUb]b[`dfUW]W]g` fa YVWUb]W]` / ` j UW i a ` gk YYdYfgž` ghfYYh` gWi VVYfgž` VŁa V]bUh]cbgŁ`</p>	
<p>J Yf]Z]W]h]cb.`</p> <p>HYbXYfYfg`a i gh`dfcj]XY`k f]Hb`d`fcW]Xi fYg`UbX`U`WYUb]b[`gYfj]W]g`d`Ub`Zcf`DA`%\$`ghfYYh` Xi gh`fYXi W]cb`cdYfUh]cb`f]b`UWŁ`fXUbW]`k]h`h`Y`Udd`]W]V`Y`Y`Ya`Ybhg`cZ`h`Y`VŁa`a`cb` W]hYf]U`Zcf`gYfj]W]`W]hY[cf]Yg`HG%`9bj]fcb`a`YbhU`A`UbU[Ya`Ybh`A`YUgi`fYgŁ`]bW]X]b[`Yei`]da`Ybh`UbX`d`fcXi`W]g`h`c`V`Y`Ya`d`cm`Y`X`]b`h`Y`YI`Y`W]h]cb`cZ`h`Y`VŁbhfUW]`</p>	
<p>7cfY`W]hYf]U`</p>	<p>7ca`dfY`Ybg]j`Y`W]hYf]U`</p>
<p>7cbhfUW]DYfZcfa`UbW`7`Ui`gYg`</p>	
<p>7D7%`K`YYX`VŁbhfC`</p> <p>=b`UXX]h]cb`h`c`h`Y`fYei`]fYa`Ybhg`gYhi`d`Vm` `cW]`fY[i`Uh]cbg`VŁbW]fb]b[`h`Y]f` Udd`]W]h]cbž`W]Ya`]W]`Y`fV]W]XYg` `a`i`gh` bch`VY`Udd`]YX.`</p> <p>%Ł`(`X`Umg`VY`Zcf`Y`cf`U`Z`h`Y`f`h`Y`U`f`Y`U`]g` gk`Y`d`h`U`b`X` &Ł`]b`h`Y`Y`j`Y`bh`f`c`f`\\[`\\`d`f`c`V`U`V`]]`h`m` c`Z`c`W]`f`f`Y`b`W]`Ł`c`Z`d`f`Y`V]`d`]`h`U]`cb`c`f` X`Y`k`ž`h`c`d`f`Y`j`Y`bh`\\`Y`f`V]`W]`X`Y`g`Z`c`a` V`Y]`b[`k`U`g`\\`X`c`Z`h`Y`d`U`bhg`</p> <p>5`g`c`ž`h`Y`VŁbhfUW]c`f`a`i`gh`i`g`Y`\\`Y`f`V]`W]`X`Y`g`]b`\\`b`Y`k`]h`h`Y`a`c`gh`f`Y`W]`b`h`j`U`]`X`j`Y`fg]`cb` c`Z`h`Y`g`i`ghU]`b`U`V`Y`k`Y`Y`X`VŁbhfC``cb` d`U`j`Y`a`Y`bh`g`a`Y`h`c`X`%a`</p> <p>F`Y`VŁ`f`X`g`c`Z`\\`Y`f`V]`W]`X`Y`g`ž`Udd`]W]h]cb`f`U`h`Y`g` U`b`X`g`W]`Y`X`i`Y`g`a`i`gh`V`Y`_`Y`d`h`U`b`X`a`U`X`Y` U`j`U`]`U`V`Y`h`c`h`Y`VŁbhfUW]b[`U`i`h`c`f]`h`m`Z`c`f` j`Y`f]`Z]`W]`h]`cb`d`i`f`d`c`g`Y`g`H`Y`VŁbhfUW]b[`U`i`h`c`f]`h`m`a` U`m`i`g`Y`h`f`i`Y`g`Z`c`f`d`Y`b`U`h]`Y`g`Z`c`f` b`c`b`!`VŁ`a`d`]`U`b`W]`</p> <p>%`h`d`.##`k`k`k`"k`i`f`"b`#`Y`b`#`F`Y`g`Y`U`f`V]`!`F`Y`g`i`h`g`#`D`f`c`Y`V`W]`g`! U`b`X`!`d`f`c[`f`U`a`a`Y`g`#`G`K`9`9`D`#`F`Y`g`i`h`g`"h`a`</p>	<p>7D7%`K`YYX`VŁbhfC`</p> <p>K`Y`Y`X`VŁbhfC` `a`i`gh`V`Y`W]ff]YX`c`i`h`V`m` U`d`d`m]`b[`b`c`b`!`W]`Ya`]`W]`h`f`Y`U`h`a`Y`bh`a`Y`h`c`X`g` f`M]`W]`d`h`Z`c`f`c`f[`U`b]`W]j`]`b`Y[`U`f`Ł`g`i`W]`U`g`h`Y`f`a`U`ž` a`Y`W]`U`b]`W]`c`f`V]`c`c[]`W]`h`f`Y`U`h`a`Y`bh`g`</p> <p>F`Y`VŁ`f`X`g`c`Z`b`c`b`!`W]`Ya`]`W]`h`f`Y`U`h`a`Y`bh`a`Y`h`c`X`g` U`b`X`U`d`d`]`W]`h]`cb`g`W]`Y`X`i`Y`g`a`i`gh`V`Y`_`Y`d`h`U`b`X` U`j`U`]`U`V`Y`h`c`h`Y`VŁbhfUW]b[`U`i`h`c`f]`h`m`Z`c`f` j`Y`f]`Z]`W]`h]`cb`d`i`f`d`c`g`Y`g`H`Y`VŁbhfUW]b[`U`i`h`c`f]`h`m`a` U`m`i`g`Y`h`f`i`Y`g`Z`c`f`d`Y`b`U`h]`Y`g`Z`c`f`b`c`b`! VŁ`a`d`]`U`b`W]`</p>

F Uh]cbU`Y`

Graffiti removal

8]ZZYfYbh[fUZZ]h] fYa cj U`a Yh`cXg`YI]ghfZcf`U`VŁa dfY`Ybg]j`Y`cj Yfj]Yk`gYY`
GYW]cb` " %Ł`

H`Y`Y`Z`Y`W]j`Y`b`Y`gg`c`Z`[`f`U`Z`Z]`h]`f`Y`a`c`j`Y`f`g`]`g`\\[`\\`m`i`X`Y`d`Y`b`X`Y`b`h`c`b`j`U`f]`c`i`g`
Z`U`V`Ł`c`f`g`]`b`W]`X]`b[`h`Y`[`f`U`Z`Z]`h]`a`U`h`Y`f]`U`ž`h`Y`h`m`d`Y`c`Z`g`i`V`g`h`f`U`h`Y`a`U`h`Y`f]`U`ž`h`Y`
X`i`f`U`h]`cb`c`Z`h`Y`[`f`U`Z`Z]`h]`c`b`h`Y`g`i`V`g`h`f`U`h`Y`g`i`f`Z`U`W]`ž`Y`h`W]`G`c`a`Y`g`i`V`g`h`f`U`h`Y`g`c`Z`
h`Y`g`U`a`Y`Z`U`a`]`m`a`U`m`i`f`Y`e`i`]`f`Y`h`Y`U`d`d`]`W]`h]`cb`c`Z`U`VŁa`V]`b`U`h]`cb`c`Z`[`f`U`Z`Z]`h]`
f`Y`a`c`j`U`a`Y`h`c`X`g`h`c`c`V`h`U]`b`h`Y`X`Y`g`]`f`Y`X`f`Y`g`i`h`g`k`]`h`c`i`h`b`Y[`U`h]`Y`m`
]`a`d`U`W]`b[`h`Y`g`i`V`g`h`f`U`h`Y`g`i`f`Z`U`W]`f`Y`["`"Zcf`gca`Y`a`U`g`c`b`f`m`g`i`V`g`h`f`U`h`Y`g`ž`h`Y`

Udd`jWWh]cb`cZ`VX`Ya` jW`fYa`cj`Yf`Zc`ck`YX`Vm`\][\`dfYggi`fY`k`UHyf`gdfUm`\Ug`VYYb`g\ck`b`hc`UW\jYj`Yj`Yfm[ccX`fYgi`hgk`

K`Yb`fYa`cj`]b[`[FUZZ]h`Zfca`ZU,`UXYgž`h\Y`dfcXi`W`]g`[YbYfU`m`gdfUm`YX`cbhc`h\Y`ZU,`UXY`i`bX]i`hYX`"5Zhf`UVci`h`%\$!`%`a`]bi`hYgž`h\Y`ZU,`UXY`]g`WYUfYX`cZ`h\Y`X]ggc`j`YX`[FUZZ]h`i`g]b[`U`Yh`k`Ug\Yf`fZcf`Uf[`Yf`gi`fZUW`gk`UbX`k`Ufa`k`UHyf`":`cf`ga`U`Yf`gi`fZUW`g`U`Wch`]g`i`gYX`VYZcf`Y`f]bg]b[`k`]h`k`UHyf`"5`h\ci`[\`Yei`]da`Ybh`Zcf`W`YW]b[`k`UHyf`UbX`h\Y`X]ggc`j`YX`[FUZZ]h`YI`]ghž`]h`]g`YI`dYbg]j`Y`UbX`]g`bch`dcdi`Uf`mi`gYX`"H\YfYZcf`Y`h\Y`k`UghYk`UHyfž`WYUb]b[`U`[Ybhg`UbX`[FUZZ]h`YbX`i`d`X]fYW`m]b`h\Y`Ybj`]fcb`a`Ybh`cf`]b`h\Y`a`i`b]WdU`gYk`YfU[`Y`gmghYa`fBcfX]W`9W`UVY`]b[ž`>`bY`&\$%*`Ł`Hc`a`]b]a`]nY`h`]gž`YZcfhg`a`i`gh`VY`a`UXY`hc`i`gY`h\Y`a`cgh`Ybj`]fcb`a`YbhU`m`Z]YbX`m`dfcXi`Wgž`UbX`U`gc`fYXi`W`h\Y]f`i`gY`h\fc`i`[\`a`cfY`YZ]WYbh`Udd`jWWh]cb`UbX`VYgh`dfUW]Wg`"

GYj`YfU`Uj`U]UV`Y`fYgci`fWg`Y"[`"fGUb`:`fUbW]gW`8YdUfha`Ybh`cZ`h\Y`9bj`]fcb`a`Ybhž`&\$%(`Ł`W`i`X`VY`UXcdhYX`Ug`[i`XYg`]b`XYhYfa`]b]b[`h\Y`VYgh`Uj`U]UV`Y`dfUW]Wg`gi`]hYX`hc`h\Y`hmdY`cZ`gi`fZUW`hc`VY`WYUbYX`"5`gYh`cZ`W]hYf]U`h\U`[U\Yfg`h\Y`VYgh`dfUW]Wg`]b`cfXYf`hc`fYXi`W`h\Y`Ybj`]fcb`a`YbhU`]a`dUW`cZ`[FUZZ]h`fYa`cj`U`UW]j`]hYg`]g`dfYgYbhYX`VY`ck`"Di`V`]WUi`h\cf]h]Yg`UfY`UXj`]gYX`hc`gY`YW`h\Y`a`cgh`Uddfcdf]UHy`dfUW]Wg`VYgh`gi`]hYX`hc`h\Y`fYe`i`YghYX`WYUb]b[`gYfj`]W`UbX`h\Y`gi`fZUW`W`bX]h]cbg`"

H\Y`W]hYf]cb`cb[`FUZZ]h`fYa`cj`U`dfcXi`W`gi`gYX`Zcf`h\Y`dfcj`]g]cb`cZ`WYUb]b[`gYfj`]Wg`\Ug`VYYb`k`]h`XfUk`b`VUgYX`cb`h\Y`fYUgcb]b[`dfcj`]XYX`]b`"%"&"%`!`gi`a`a`UfmcZ`ghU`Y\c`XYffg`W`a`a`Ybhg`Zc`ck`]b[`5<K`;&"`

7f]hYf]cb`Dfc`dcgU`"

7cfY`W]hYf]U`	7ca`dfY\`Ybg]j`Y`W]hYf]U`
7cbhfUW]dYfZcfa`UbW`7`Ui`gYg`	
<p>7D7&"`;`FUZZ]h`fYa`cj`U`cdYfUh]cb`</p> <p><i>(Same formulation for Core and Comprehensive level)</i></p> <p><i>Note: This criterion is applicable only if the removal of graffiti is from surfaces other than building fronts and requires the use of a high-pressure water sprayer.</i></p> <p>H\Y`W`bhfUW]cf`a`Um`i`gY`U`\][\!`dfYggi`fY`k`UHyf`gdfUmYf`fUbX`WYUb]b[`gc`i`h]cbgž`]Z`bYW]ggUfnt`hc`fYa`cj`Y`[FUZZ]h`Zfca`gi`fZUW]g`chYf`h\Ub`Vi`]X]b[`Zfcbhg`dfcj`]XYX`h\U`h`gYdUfUh]cb`gmghYa`]g`Uj`U]UV`Y`k`YfYVm`h\Y`X]fmi`k`UHyf`]g`fYV`j`YfYX`UbX`W]b`VY`gi`VgYe`i`Ybh`m]hYUHYX`":`cf`YI`Ua`d`Yž`k`]h`U`k`UHyf`fYW]W]b[`gmghYa`h\U`h`W]hW]Yg`h\Y`k`UHyf`i`gYXž`Z]hYfg`]h`UbX`fY!`i`gYg`]h`"</p> <p>H\Y`W`bhfUW]cf`a`i`gh`XcW`a`Ybh`]bZcfa`Uh]cb`cb`h\Y`j`c`i`a`Y`UbX`a`YUbg`cZ`X]gdcgU`cZ`h\Y`k`UghYk`UHyf`UbX`k`UghY`fYgi`h]b[`Zfca`h\Y`[FUZZ]h`fYa`cj`U`cdYfUh]cb`Ug`dfccZ`cZ`W`a`d`]UbW`k`]h`h\Y`fYe`i`]fYa`Ybhg`UVcj`Y`"FYW`fXg`cZ`[FUZZ]h`fYa`cj`U`cdYfUh]cbgž`]bW`X]b[`cdYfUh]cbU`W`bX]h]cbg`UbX`dfcXi`W`gi`gYX`a`i`gh`VY`_Ydh`UbX`a`UXY`Uj`U]UV`Y`hc`h\Y`W`bhfUW]b[`Ui`h\cf]miZcf`j`Yf]Z]W]h]cb`di`fdcgYg`"</p>	

Note on graffiti removal operation

The contracting authority may select which graffiti removal operation is the most suitable for the surface to be cleaned. For the following types of surfaces, the following graffiti removal methods are generally recommended:

- a. Masonry substrates – use blasting system removal*
- b. Wood substrates – paint over.*
- c. Non porous substrates – use chemical removers*
- d. Glass graffiti or etching- use chemical removers*
- e. Street signs – apply sensitive surface chemical graffiti removers (however the effectiveness depends on the graffiti)*

(8fUZh' DfcdcgYX' 9I ' ; DD' W]hYf]U' Zcf' ; UfXYb]b[' 5VWj]h]Yg'

('%CfbUa YbHJ' d'Ubhg'

F U]cbU'Y''

Organic and integrated production of plants

H\Y']bW] g]cb' cZ U' W]hYf]cb' cb' cf[Ub]W dfcXi W' k Ug' dfcdcgYX']b' h\Y' dfYj]ci g' XfUZh' cZ h\Y' HYW\ b]W] fYdcfh' VUgYX' cb' ghi X]Yg' h\Uh' XYa' cbghfUH' h\Uh' h\Y' d'cg]V]]mi cZ UW\]Yj]b[' gca Y' Ybj]fcb' a YbHJ' VYbYZ]hg' W\ b' VY' Vfc] [\ h' i bXYf' Wfh]]b' V\ bX]h]cbgž' Zcf' YI Ua d'Y' VYbYZ]hg' fY[UfX]b[' V]cX]j Yfg]]micf' h\Y' ei U']micZ' gc''

H\Y' j Yf]Z]W]h]cb' cZ h\Y' dfcdcgYX' W]hYf]cb']g' VUgYX' cb' h\Y' FY[i ' U]h]cb' f97' Bc' , ' (#&\$\$+ ' cb' cf[Ub]W dfcXi W]cb' UbX' ' UVY'']b[' cZ' cf[Ub]W dfcXi W]g' UbX' Ub' UW\ ' i bh]b[' XcW' a Ybh' cZ h\Y' YI dYVW\ X' Ubbi U' di fV\ UgYg'' =b' UW\ ' fXUbW' k]h' FY[i ' U]h]cb' f97' Bc' , ' (#&\$\$+ž' cf[Ub]W dfcXi W]g' W\ b' VY' Wfh]Z]YX' UbX' ' UVY'' YX' Ug' gi W\ ' VY]b[' YUg]]mi fYV\ [b]nYX' UbX' a U_]b[' ZYUg]V' Y' h\Y' j Yf]Z]W]h]cb' cZ h\]g' W]hYf]cb'' DfcW' fYfg' W\ b' U' gc' j Yf]Z]m' h\Y' di fV\ UgYg' cZ cf[Ub]W dfcXi W]g' h\ fci [\ ci h' XYHJ]YX']bj c]W]g'' =bj c]W]g' cZ h\Y' d'fcXi W]g' di fV\ UgYX' g\ ci ' X' VY' XYHJ]YX' Ybci [\ ' UbX']bW] XY' h\Y' bUa Y' cZ h\Y' d'fcXi W]ž' h\Y' ei Ubh]]mi UbX' h\Y' V\ ghg'' <ck Yj Yfž' U' _Ymi V\ bWfb' Zcf' ghU_ Y\ c' XYfg' cb' h\]g' W]hYf]cb' k Ug' h\Y' Uj U]UV]]mi cZ' cf[Ub]W cfbUa YbHJ' d'Ubhg']b' h\Y' a Uf_ Yh' Ug' a cgh' d'fcXi W]fg' UfY' Wfh]Z]YX' UW\ ' fX]b[' hc']bhY[fUH\ X' d'fcXi W]cb''

=bhY[fUH\ X' d'fcXi W]cb']g' U' gmghYa' cZ a UbU[Ya Ybh' h\Uh']bj c' j Yg' U' V\ a V]bUh]cb' cZ V]c' c[]W] ' UbX' W\ Ya]W] ' a YUgi fYg' h\Uh' U]a g' hc' d'fcj]XY' U' V\ gh' YZYW]j Y' UbX' Ybj]fcb' a YbHJ']mi gci bX' a UbU[Ya Ybh' cZ X]gYUgYgž']bgYW]gž' k YXXg' UbX' ch\ Yf' dYghg'' =b' &\$\$* ž' h\Y' 9i fcdYUb' l b]cb' di V']g\ YX' U' Thematic Strategy on the Sustainable Use of Pesticides' UbX' h\]g' k Ug' Zc' ' ck YX' i d' Vmi fB]fYW]j Y' &\$\$- #%&, #97' c' h\ Yfk]gY' _bck b' Ug' h\Y' Gi ghU]bUV' Y' DYgh]V\ XYg' 8]fYW]j Y'' =h' ZcW' gYg' cb' UW\]Yj]b[' gi ghU]bUV' Y' i gY' cZ dYgh]V\ XYg']b' h\Y' 9I ' UbX' dfca chYg' h\Y' i gY' cZ =bhY[fUH\ X' DYgh' A UbU[Ya Ybh' f=DA' k' UbX' cZ U' hYfbUh]j Y' UddfcUW\ Yg' cf' hYW\ b]ei Ygž' gi W\ ' Ug' bcb! W\ Ya]W] ' U' hYfbUh]j Yg' hc' dYgh]V\ XYg''

5' h\ci [\ ' =DA' XcYg' bch' V\ a d'Yh' ' mi Y']a]bUhY' h\Y' i gY' cZ V\ bj Ybh]cbU' W\ Ya]W]gž']h' gh]'' cZYfg' h\Y' VYbYZ]h' cZ g] [b]Z]W]bh]mi fYXi V]b[' h\Y' i gY' cZ grmbh\ Yh]W dYgh]V\ XYg' fl B' 9bj]fcb' a Ybhž' &\$\$* ž' f7i nbcž' Yh' U'' ž' &\$\$%ž' f\ cbUh\ Ub' Yh' U'' ž' &\$\$+ ž' f]mi b[ž' G'' @' ž' &\$\$+ ž' '' : i fh\ Yfa cfYž' ghi X]Yg' cb' h\Y' 9i fcdYUb' Uj U]UV]]mi cZ Wfh]Z]YX' bi fgYf]Yg' Zfca' ' cf[Ub]W dfcXi W]cb' UbX' =DA' g\ ck g' h\Uh' bi fgYf]Yg' Wfh]Z]YX' UW\ ' fX]b[' hc' =DA' d'f]bV]d' Yg' UW\ ' i bh' Zcf' U' [fYUhYf' a Uf_ Yh' g\ UfY' h\ Ub' Wfh]Z]YX' cf[Ub]W dfcXi W]cb''

5XX]h]cbU' mž' a Ubmi Wfh]Z]W]h]cb' gW\ Ya Yg']b' h\Y' ' Ugh' ZYk' XYW\ XYg' \ Uj Y' Yj c' j YX' VYm\ cbX' [YbYfU' =DA' d'fUW]W]g' Ybgi f]b[' bYk' a Uf_ Yh' cddcfh' b]h]Yg' Zcf' d'fcXi W]g' a UbU[YX' k]h' =DA'' G\ W\ Ya Yg' gi W\ ' Ug' h\Y' A DG! ; 5D'

((

Vfjh]Z]VWh]cbž h\Y ; @C65@ 5D Zck Yfg UbX d`Ubhg gWYa Y `Uj Y Ya VYXXYX k]h]b h\Ya df]bW]d`Yg cZ =DA Ug U fYei]fYa Ybh f]9I F 9D; 5Dž &\$\$+Ł Cf [Ub]W bi fgYf]Yg \Uj Y h\Y VYbYZ]h cZ Uj c]X]b [h\Y i gY cZ gmbh\Yh]W ZYfh]nYfg UbX dYgh]V]XYg" =bZcfa Uh]cb cVhU]bYX Zcfa U gi fj Ym cZ gYj YfU XUHVUgYg]bW X]b [h\Y 9i fcghUž h\Y : 5CGH5H XUHUž UbX h\Y Gk]gg FYgYUfV =bgh]h h\ cZ Cf [Ub]W 5 [f]W h fy fl]6@]bX]W]hY h\Uh U`h ci [\ h\YfY]g dfcXi W]cb cZ cf [Ub]W mW`h] UhYX bi fgYfmVi `Vg UbX cfbUa YbhU d`Ubhgž h\YfY]g j]fhi U`m bc XUHU cb h\Y g\UfY Uj U]UV`Y]b 9i fcdYž gc h\Y Uj U]UV]]hmcZ gi Z]V]Yb]h ei Ubh]h]Yg cZ cf [Ub]W cfbUa YbhU d`Ubhg Wbbch VY [i UfUbhYX" 6UgYX cb W ffYbh]bZcfa Uh]cbž cfbUa YbhU d`Ubhg Vēi X VY gci fWYX Zcfa Vēi bh]Yg ci hg]XY h\Y 9i fcdYUb l b]cb]bW X]b [h\Y l b]hYX GHUHgž 7c`ca V]Už ? YbmUž =gfUY ž 7\]bU UbX ? YbmU f@Uf]j]YfYž J "ž &\$%+Ł"

H\Y 7ca a]gg]cb]a d`Ya Ybh]b [FY [i `Uh]cb f]9I Ł &\$% # - cZ %\$ >Ubi Ufmi &\$%- `Ua YbX]b [FY [i `Uh]cb f]97Ł Bc`%&') #&\$\$, `Umg Xck b`XYHU]YX fi `Yg Zcf h\Y]a d`Ya YbhU]cb cZ 7ci bW`FY [i `Uh]cb f]97Ł Bc` , ' (#&\$ \$+ Ug fY [UfXg h\Y UffUb [Ya Ybhg Zcf]a dcfhg cZ cf [Ub]W dfcXi W]g Zcfa h\]fX Vēi bh]Yg f]5bbYl =Ł" H\ fci [\ h\]gž h\Y l G85 BUh]cbU Cf [Ub]W Dfc [fUa fBCDŁ cf Yei]j U`Ybh`Y [U`cV] [Uh]cbg gYh Vm]fUXY dUf]bYfg cZ h\Y 9i UfY fYVē [b]nYX Ug Yei]j U`Ybh` hc h\Y 9i Cf [Ub]W Dfc [fUa fi bXYf Udd`W]V`Y 9i fY [i `Uh]cbgŁ" H\YfY ZcfYž h\Y HYVWb]W GdYV]Z]W]h]cb HG%]g Zcfa i `UH`X hc Vēbg]XYf Yei]j U`Ybh`Y [U`cV] [Uh]cbg gYh Vm]fUXY dUf]bYfg cZ h\Y 9i "

Hc Ybgi fY h\Uh di fW UgYX d`Ubhg UfY dfcXi WYX k]h h\Y `YUgh Ua ci bh cZ VY Ya]W`]bdi hgž UbX Ugc YbVēi fU [Y h\Y Vēbh]bi YX [fck h`cZ h\Y a Uf_Yh cZ cf [Ub]W d`Ubhgž cfbUa YbhU d`Ubhg dfcXi WYX j]U`Y]h\Yf cZ h\YgY a Yh cXg UfY VY]b [fYei YghYX Uh Vch h\Y VēfY UbX Vēa dfY\Ybg]j Y `Yj Yg Ug hYVWb]W` gdYV]Z]W]h]cbg" H\Y dYfW]b]U [Y cZ cf [Ub]W cf =DA cfbUa YbhU d`Ubhg]g bch]gYh Vm]h\Y hYVWb]W` gdYV]Z]W]h]cbž g]bW h\Y a Uf_Yh Uj U]UV]]hmi j Uf]Yg k]XY`m UVcg h\Y 9i " H\YfY ZcfYž h\Y Vēbh]fUW]b [Ui h\cf]hmi k]`bYXX hc gYh U`dYfW]b]U [Y VUgYX cb h\Y bUh]cbU cf `cW` a Uf_Yh cZ cfbUa YbhU d`Ubhg"

Plant containers

D`Ubh`XY`j Yfmi Vēi X` [YbYfUH`U`Uf [Y`Ua ci bh cZ k Ugh`VYW]i gY d`Ubhg UfY bcf a U`m XY`j YfYX`]b DJ 7`dchg`cf`]b`dc`mg]mfYbY`d`UhYUi ž k \]W` UfY`bch U`k Umg`fYi gUV`Y`cf`fYi gYX`" H\Y bi fgYf]Yg i gi U`m Xc`bch dfcj]XY`h\Y cdh]cb cZ hU`_]b [`VUW` h\Y dchg`Zcf`fYi gY`": cf`h\Uh fYUgcbž a cgh cZ h\Y]a Y`h]g a Uhf]U`]g X]gdcgYX`cZ]b`U`UbXZ]`"

H\Y i gY cZ fYi gUVY`cb [!`Ugh]b [fBYdXUY`HfYg @Xž &\$%+Ł fgca Y dfcXi W]g \Uj Y U`]Z`gdUb`cZ %\$`mYUfg fDfc]dY`ž &\$%+Ł Vēi X` \Y`d`fYXi W` h\Y j c`i a Y` cZ d`Ugh]W k Ugh` Zcfa h\Y cfbUa YbhU d`Ubhg gYVēcf` 6]cXY [fUXUV`Y`dchg`UfY`Ugc`Uj U]UV`Y`UbX`W]b`VY`cZ bUh fU`fUk`a Uhf]U`g`cf`dfcW`ggYX`a Uhf]U`g`" H\Y Zcfa Yf`]g Vēa dcgYX`cZ a Uhf]U`g`gi W` Ug Vēf`ž k ccX` Z]VfYgž`cf`ch\Yf`a Uhf]U`g`" 5bch\Yf`U`hYfbUh]j Y`]g h\Y i gY cZ Vēa dchg]UV`Y`dchg`]Z`h\YmUfY`gi]hUV`Y`Zcf`h\Y d`Ubhg g]cfU [Y`UbX`hfUb]gdcfhž UbX`]Z`h\YfY`UfY`Vēa dchg]b [Z]W]h]Yg Uj U]UV`Y`" H\Y ghU]bXUfXg`XYZ]b]b [

V]cXY[fUXUV]]m i UbX' Vta dcghUV]]m i UfY' 9B' %(- -).&\$ \$+ž' cf' 9B' % (' &.&\$ \$ž' UbX' UfY' k]XY' m fYVt[b]gYX' UbX' i gYX' Vm V]cVUgYX' dUW_U[]b[' a Ubi ZUVi fYfg"

8i f]b[' h\Y' Z]fgh' ghU_Y\c`XYf' a YYh]b[' UbX']hg' gi VgYei Ybh' Vtbg' `hU]cb' dYf]cXž' h\Y' V]hYf]cb' Zcf' d`Ubhg' Vtbg]bYfg' UbX' dUW_U[]b[' k Ug' k Y`Vta YX' Vm ghU_Y\c`XYfg' Vi h'h\YfY' k YfY' Vtbg]bYfg' UVci h'h\Y' gi]hUV]]micZ Vta dcghUV' UbX' V]cXY[fUXUV'Y' dchg' Zcf' h\cgY' d`Ubhg' k \]V' fYei]fY' ghcfU[Y' Zcf' Ub' Yl hYbXYX' h]a Y' gdUb" =h' k Ug' fYVta a YbXYX' h\Uhi ch\Yf' cdh]cbg' g\ci `X' VY']bWi XYX']Z V]cXY[fUXUV'Y' cf' Vta dcghUV'Y' gc' i h]cbg' k YfY' bch' ZYUg]V'Y" H\Y' V]hYf]cb' \Ug' VYYb' fYZcfa i `UhYX' UVVtFX]b[`m"

Species suitable for local conditions and prevention of invasive alien species

6UgYX' cb' h\Y' ghU_Y\c`XYfg']bdi hž' h\Y' hYVb]W' gdYV]V]h]cb' cb' d`Ubh' V\UfUV]f]gh]Vg' dfYgYbh']b' h\Y' dfYj]ci g' j Yfg]cb' cZ 9l ; DD' Zcf' ; UfXYb]b[' DfcXi Vhg' UbX' GYfj]Vg' \Ug' VYYb' fYZcfa i `UhYX' Ug' U' bchY' h\Uhi fYei]fYg' h\Y' d`Ubh' gdYV]Yg' hc' VY' gi]hUV'Y' Zcf' h\Y' `cW' [fck]b[' Vtbg]h]cbg' fY" ["ž' gc] UV]X]mž' Uj YfU[Y' fU]bZ'ž' fUb[Y' cZ hYa dYfUhi fY' cj Yf' h\Y' mYUfž' YhW' "H\]g']g' Vta dYa YbhYX' k]h' U' hYVb]W' gdYV]V]h]cb' UVVtFX]b[' hc' h\Y' `Y[U' fYei]fYa Ybhg' cb']bj Ug]j Y' U']Yb' gdYV]Yg" 5VtFX]b[' hc' fFY[i `Uh]cb' f9l E' Bc' %%(' #&\$ %%(E' cb']bj Ug]j Y' U']Yb' gdYV]Ygž' f]bj Ug]j Y' U']Yb' gdYV]Ygfi a YUbg' Ub' alien species whose introduction or spread has been found to threaten or adversely impact upon biodiversity and related ecosystem services" K \]Y' U' gdYV]Yg' Vta dYhY' hc' gi fj]j Yž']bj Ug]j Y' U']Yb' gdYV]Yg' UfY' V\UfUV]f]nYX' Vm hfU]hg' h\Uhi U'ck' h\Ya ' hc' ci H Vta dYhY' bUh]j Y' gdYV]Yg" H\Y']bj Ug]j Y' U']Yb' gdYV]Yg' UfY' Zci bX' hc' \Uj Y' Ub' YZ]V]Ybh' fUHY' cZ [fck h\ UbX' fYdfcXi V]cbž' Ug' k Y' Ug' U' \] [\Yf' fUHY']b' i g]b[' h\Y' fYgci fVg' Zcfa ' h\Y' YVtgmghYa "

5b' ci hVta Y' Zcfa ' h\Y' Z]fgh' ghU_Y\c`XYf' a YYh]b[ž' UbX' h\Y' Vtbg' `hU]cb' dYf]cX' Zc`ck]b[']hž' k Ug' h\Y' [YbYfU' VtbgYbgi g' h\Uhi 9l ; DD' g\ci `X' UXXfYgg' `cgg' cZ V]cX]j Yfg]mž' gYh]b[' V]hYf]U' hc' dfca chY' gdYV]Yg' `cW' `miUXUdhYXž' UbX' U'gc' U'] [b]b[' k]h' h\Y' 6]cX]j Yfg]mž' GhfUHY[m] U]a YX' Uhi \U'h]b[' h\Y' `cgg' cZ V]cX]j Yfg]mž']bWi X]b[' Uj c]X]b[' UbX' YfUX]W]h]b[']bj Ug]j Y' U']Yb' gdYV]Yg" =b' h\Y' WUgY' cZ gdYV]Yg' gi]hUV'Y' Zcf' `cW' Vtbg]h]cbgž' h\Ym' U'gc' XYa UbX' ZYk Yf' fYgci fVg' hc' [fck ž' \Y'd]b[' h\Y' a]b]a]nU]cb' cZ' k UHYf' Vtbg' a dh]cbž' ZYfh]]nYfgž' YhW'

("%%%% Gi a a UfmicZ ghU_Y\c`XYfg' Vta a Ybhg' Zcfa ' 5 < K ; &

5' ghU_Y\c`XYf' bchYX' h\Uhi cf[Ub]WW' `hj UHYX' d`Ubhg' UfY' VYhYf' h\Ub' h\cgY' V' `hj UHYX' VUgYX' cb' h\Y' =DA' df]b]V]d' Yg' UbX' h\Uhi h\Y' hk' c' UfY' bchYei]j U'Ybh' =h' k Ug' gi [[YghYX' Vm h\Y' ghU_Y\c`XYf' hc' X]j]XY' h\Y' V]hYf]cb' Ug' Zc`ck g. "

- 5h' YUghLi ' cZ' di fVUgYX' cfbUa YbhU' d`Ubhg' a i gh' VY' Cf[Ub]W'

- 5h' `YUgh' L1' `cZ' di fVW UgYX' cfbUa YbHU' d`Ubhg' a i gh' VY' [fck b' UVMxfX]b[`hc' =bhY[fUHfYX`DYgh'A UbU[Ya Ybh'Å'

H\lg'Vta a Ybh'\Ug'VYyb'UVMVdhYXž'UbX'h\Y'W]hYf]cb'UXUdhYX'UVMxfX]b[`m'
 =b' UXX]h]cbž' cbY' ghU_Y\c`XYf' fU]gYX' VtbWfbg' UVci h'h\Y' HU_Y! VUW_ gmghYa
 Zcf' d`Ubh' dchg' UbX' VtbhU]bYfgž' bch]b[`h\Uh']hg']a d`Ya YbhU]cb' k ci `X' VY'
 fYU`mi X]ZZ]W`h' UbX' Yl dYbg]j' Y' Zcf' UXa]b]ghfU]cbgž' k \]Y' h\Y' i gY' cZ
 Vta dcghUV`Y' cf' V]cXY[fUXUV`Y' dchg' fZca' a UhYf]U'g' `]_Y' Vt]f' UbX' Vt]f!
 ghUfVW`Ł']g' bch' ZYUg]V`Y' Zcf' dfcZYgg]cbU' gYfj]W]g' Ug' h\Y' d`Ubh' dchg'
 X]g]bhY[fUHf' VYZcfY' h\Y' d`Ubhg' W]b' VY' di h']bhc' gYfj]W]g' : i fh\Yfa cfYž' h\Y'
 a U`cf]hmcZ VtbhU]bYfg' UfY' a UXY' cZ dc`m]fcdmYbY' fDDŁ']bghYUX' cZ DJ 7' UbX'
 DD' W]b' VY' a UXY' cZ fY! i gYX' a UhYf]U' Vi h'h\Y']ggi Y' cZ]hg' fYi gY']g' bch' gc'
 YUgm'`

H\Y' \cfh]W`hi fU']bXi ghfm'\Ug']b]h]Uh]j' Yg'hc' a]b]a]nY'h\Y']a dUW]g' cZ h\Y' i gY'
 cZ d`Ugh]W dchg' h\fc] [\ `h\Y' dfca ch]cb' cZ Ž' `m' fYVMWUV`Y' UbX' fYVMWYX'
]bXi ghfm' ghUbxUfX' "hU' dY' dch' Ug' k Y' Ug' bU]cbU' d`Ubh' dch' HU_Y! VUW_
 fYVMW]b[`gVWYa Yg' fY" ["ž' h\Y' HU_Y' VUW_ fYVMW]b[`gVWYa Y' `Ui bVWYX' Vm h\Y'
 <cfh]W`hi fU' HfUXY' 5ggcW]Uh]cb' fK H5Ł']b' h\Y' i b]hYX' ?]b[Xca Ł' " Hc' a]h[UH'
 h\Y']a dUW]g' Zca' h\Y' XYd`cma Ybh' cZ]g]b[`Y' i gY' d`Ugh]W VUgYX' dchgž'
 U'hYfbU]h]j' Yg' \Uj Y' VYyb' dfcdcgYXž' a U]b`m' fYi gUV`Y' UbX' fYVMWUV`Y' d`Ubh'
 dchg"

H\Y' W]hYf]U' dfcdcgU']g' U'] bYX' k]h' h\Y' W ffYbh' 9l' `9Vt`UVY' `cb' [fck]b[`a
 YX]Už' gc]`]a dfcj Yfg' UbX' a i `W' k \]W' Vt]j Yfg' cb`m]cf[Ub]Wgc]`]a dfcj Yfg'
]b' cfXYf'hc' dfca chY' h\Y' i gY' cZ Vta dcgh'UbX' X]] YghUH' a UhYf]U'g" GUbX' Ug' U'
 gc]`]a dfcj Yf' XcYg' bch' \Uj Y' Ubm'XcW' a YbhYX' Ybj]fcb' a YbhU']ggi Yg' fY' U'hYX'
 hc']hg' i gY' : cf' h\lg' fYUgcbž']h']g' bch' UXXfYggYX']b' h\Y' dfcdcgYX' W]hYf]U'
 : fca' U' 9l' ; DD' dYfgdYV]h]j' Yž' h\Y' W]hYf]cb' cb' gc]`]a dfcj Yfg']g' U'] bYX' k]h'
 h\Y' 9l' `9Vt`UVY' Zcf' [fck]b[`a YX]Už' gc]`]a dfcj Yfg' UbX' a i `W' k \]W']g' gh]`
]b' ZcfWž' UbX']h' dfcj]XYg' U']gh' cZ a UhYf]U'g' h\Uh' UfY' bch' U`ck YX' hc' VY' i gYX'
 Ug' gc]`]a dfcj Yfg']bW] X]b[` "A UhYf]U'g' hchU`m' cf' dUfh]U`m' XYf]j YX' Zca'
 gi X[Y' XYf]j YX' Zca' a i b]V]dU' gYk U[Y' k UhYf' hfYU]a Ybh' UbX' Zca' gi X[Y'
 XYf]j YX' Zca' h\Y' dUdYf']bXi ghfm'" A cfYcj Yfž' h\Y' W ffYbh' dfcdcgU' cZ h\Y' 9l'
 : Yfh]]gYf' FY[i `Uh]cb' XcYg' Yl W X Y']bXi ghf]U' gi X[Y' Ug']bdi h' a UhYf]U' cZ
 Vta dcgh'UbX' X]] YghUH'"`

7cbWfb]b[`h\Y' h\YfYg\c`Xg' Zcf' \YUj mi a YHU'gž']h']g' UW_bck `YX[YX' h\Uh' h\Y'
 \YUj mi a YHU' `]a]hg' UfY' gh]W]f' h\Ub' h\cgY' gdYWZ]YX']b' h\Y' W ffYbh'
 fY[i `Uh]cb' Ug' h\Y' j' U' i Yg' gYh']b' h\Y' W ffYbh' F Y[i `Uh]cb' UfY' VUgYX' cb' U' VfcUX'
 fUb[Y' cZ]bdi h' a UhYf]U'gž']h']g' [YbYfU`m' Ubh]V]dU]hYX' h\Uh' h\Y']a]hg']a dcgYX'
 Vm h\Y' fY[i `Uh]cb' k]` VY' Ygg' ghf]b[Ybh' h\Ub' h\Uh' cZ h\Y' YVt`UVY' Xi Y' hc' h\Y'
 Yl W]g]cb' cZ Wf]hU]b' hmdYg' cZ]bdi h' a UhYf]U'gž' fYgi `h]b[`]b' \] [\Yf' YbX! cZ
 k UghY']a]h' j' U' i Yg' Zcf' Wf]hU]b' \YUj mi a YHU'g' f]b' h\Y' 9l' `9Vt`UVY' Ł' H\YfY' UfY'
 VtbWfbg' h\Uh' h\Y' W]hYf]U' a Um' bch' VY' dfUW]W]m']a d`Ya YbhUV`Y' Zcf' h\Y'
 di fdcgY' cZ di V']WdfcW fYa Ybh']b']hg' W ffYbh' Zcfa i `Uh]cb' fY" [" h\Y' a Uf_Yhg'
 XYa UbX' a Um' fYXi W']Z h\Y']Z']a]h' j' U' i Yg' UfY' hc' \] [\Ł' H\YfY ZcfY' Uh' h\Y'
 Vt]fY' Yj Yž' h\Y' \YUj mi a YHU' `]a]h' j' U' i Yg' cZ h\Y' W]hYf]U' UfY' U'] bYX' k]h'
 h\cgY' gi [[YghYX']b' h\Y' h\W]b]W] dfcdcgU' Zcf' YbX! cZ k UghY' W]hYf]U' Zcf'

V]cXY[fUXUV`Y` k UghY` gi V`YVWYX` hc` V]c`c[]WU` hfYUha Ybh` fGUj Ymbž` <"ž` UbX` 9XYfž`D"ž`&\$%(Ē`Vi h`Uh`h`Y`Vt`a dfY\`Ybgj] Y`Yj Y`ž`bc`VX`Ub[Y`]g`a UXY`"

FY[UfX]b[`h`Y` j`U`i` Yg` UXXYX` cZ` a` cb]hcf]b[`9` Vt`]ž` h`Y` W`ffYbh`m`j`U`]X` 9I` 9Vt`UVY`Zcf`[fck`]b[`a`YX]Už`gc`]`ja`dfcj`Yfg`UbX`a`i`VX`fYei`]fYg`h`Uh`9!`Vt`]`]g`a`cb]hcfYX`hc`Ybgi`fY`h`Uh`Vt`a`dcgh]b[#UbUYfcV]W`X][Ygh]cb`]g`Vt`ffYVh`m` Wff]YX`" H`Y` W`ffYbh` W]hYf]U` Zcfa`i`Uh]cb`]g`]b`U`][ba`Ybh`k`]h`h`Y` fYei`]fYa`Ybh]b`h`Y`9I` 9Vt`UVY`cb`h`]gž`UbX`]g`h`YfYZcfY`fYHU]bYX`"

7f]hYf]U`dfcdcgU`

7cfY`W]hYf]U`	7ca`dfY\`Ybgj]`Y`W]hYf]U`
HYW`b]WU`GdYVWZ]WU]cbg`	
<p>HG%`CfbUa`YbHU`d`Ubhg`</p> <p><i>Note: In order to reduce water and fertilizer consumption, purchased ornamental plants should be plant species suitable for the local growing conditions (e.g., soil acidity, average rainfall, range of temperature over the year, etc). A list of plant species defined as suitable for the local growing conditions must be provided by the local authority.</i></p> <p>H`Y`di`fW`UgYX`cfbUa`YbHU`d`Ubhg`a`i`gh`VY`</p> <p>%` L`i`U`Cf[`Ub]W`[`fck`b`UWVt`fX]b[`hc`h`Y`fYei`]fYa`Ybhg`U]X`Xck`b`]b`FY[`i`Uh]cb`f97Ē`Bc`,`(#&\$+\$`ž`h`Y`I`G`BUh]cbU`Cf[`Ub]W`Dfc[`fUa`a`Y`fBCDĒ`cf`Yei`]j`U`Ybh`Y[`U`cV][`Uh]cbg`gYh`Vm`hfUXY`dUfhbYfg`cZ`h`Y`9I`/`UbX`#cf`</p> <p>&` M`i`U`=bhY[`fUH`YX`DYgh`A`UbU[`Ya`Ybh`f=DA`Ē`[`fck`b`UWVt`fX]b[`hc`=DA`df]bV]d`Yg`Ug`XYZ]bYX`Vm`h`Y`I`B`:`ccX`UbX`5[`f]W`h`fU`Cf[`Ub]gUh]cb`fĪ`5CĒ`=DA`dfc[`fUa`a`Y`cf`9I`8]fYVW]j`Y`&\$-\$`-`#%&`,`#97`</p> <p>J`Yf]Z]WU]cb`</p> <p>H`Y`hYbXYfYf`a`i`gh`dfcj`]XY`]bZcfa`Uh]cb`fbUa`Y`UbX`Ua`ci`bĪ`cZ`cfbUa`YbHU`d`Ubhg`hc`VY`gi`dd`]YX`]b`h`Y`YI`YW`h]cb`cZ`h`Y`Vt`bhfUVh`]bX]WU]b[`gdYVWZ]WU`m`h`Y`dfcXi`VWg`h`Uh`Vt`a`d`m`k`]h`h`Y`fYei`]fYa`Ybh`Zcf`=DA`cf`cf[`Ub]WdfcXi`V]cb`"</p> <p>8cW`a`YbhYX`hfUbgUV]cb`fYVt`fXg`h`Uh`U`ck`Zcf`h`Y`j`Yf]Z]WU]cb`cZ`Vt`a`d`]UbWV`cZ`]bX]j`]Xi`U`d`Ubhg`cf`VUH`WYg`cZ`d`Ubhg`Ug`k`Y`Ug`hfUWUV`]h`m`VUW`hc`h`Y`dc]bh`cZ`Vf]h]Z]WU]cb`a`i`gh`VY`UWV`dhYX`" H`]g`</p>	<p>HG%`CfbUa`YbHU`d`Ubhg`</p> <p><i>Note: In order to reduce water and fertilizer consumption, purchased ornamental plants should be plant species suitable for the local growing conditions (e.g., soil acidity, average rainfall, range of temperature over the year, etc). A list of plant species defined as suitable for the local growing conditions must be provided by the local authority.</i></p> <p>H`Y`di`fW`UgYX`cfbUa`YbHU`d`Ubhg`a`i`gh`VY`</p> <p>%` N`i`U`Cf[`Ub]W`[`fck`b`UWVt`fX]b[`hc`h`Y`fYei`]fYa`Ybhg`U]X`Xck`b`]b`FY[`i`Uh]cb`f97Ē`Bc`,`(#&\$+\$`ž`h`Y`I`G`BUh]cbU`Cf[`Ub]W`Dfc[`fUa`a`Y`fBCDĒ`cf`Yei`]j`U`Ybh`Y[`U`cV][`Uh]cbg`gYh`Vm`hfUXY`dUfhbYfg`cZ`h`Y`9I`/`UbX`#cf`</p> <p>&` K`i`U`=bhY[`fUH`YX`DYgh`A`UbU[`Ya`Ybh`f=DA`Ē`[`fck`b`UWVt`fX]b[`hc`=DA`df]bV]d`Yg`Ug`XYZ]bYX`Vm`h`Y`I`B`:`ccX`UbX`5[`f]W`h`fU`Cf[`Ub]gUh]cb`fĪ`5CĒ`=DA`dfc[`fUa`a`Y`cf`9I`8]fYVW]j`Y`&\$-\$`-`#%&`,`#97`</p> <p>J`Yf]Z]WU]cb`</p> <p>H`Y`hYbXYfYf`a`i`gh`dfcj`]XY`]bZcfa`Uh]cb`fbUa`Y`UbX`Ua`ci`bĪ`cZ`cfbUa`YbHU`d`Ubhg`hc`VY`gi`dd`]YX`]b`h`Y`YI`YW`h]cb`cZ`h`Y`Vt`bhfUVh`]bX]WU]b[`gdYVWZ]WU`m`h`Y`dfcXi`VWg`h`Uh`Vt`a`d`m`k`]h`h`Y`fYei`]fYa`Ybh`Zcf`=DA`cf`cf[`Ub]WdfcXi`V]cb`"</p> <p>8cW`a`YbhYX`hfUbgUV]cb`fYVt`fXg`h`Uh`U`ck`Zcf`h`Y`j`Yf]Z]WU]cb`cZ`Vt`a`d`]UbWV`cZ`]bX]j`]Xi`U`d`Ubhg`cf`VUH`WYg`cZ`d`Ubhg`Ug`k`Y`Ug`hfUWUV`]h`m`VUW`hc`h`Y`dc]bh`cZ`Vf]h]Z]WU]cb`a`i`gh`VY`UWV`dhYX`" H`]g`</p>

]bW XYg j U]X' WfhjZ]W]h]cb' Zcf' cf[Ub]W cf' =DA' dfcXi W]cb ^V]bW XYg j U]X' WfhjZ]W]h]cb' Zcf' cf[Ub]W cf' =DA' dfcXi W]cb ^V
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	<p>HG&"D`Ubhg`Vt`bH]bYfg`UbX`dUW]U[]b[`</p> <p>D`Ubhg` a i gh` VY` XY`]j` YfYX`]b` Vt`bH]bYfg` fcf` WUhYg` cf` Vcl` Yg`]b` h` Y` W]gY` cZ` ga` U` d` Ubhgk` h` Uh` UfY` cbY` cZ` h` Y` Zc` ck`]b[` f]]b` cfXYf` cZ` df]cf]hkt`</p> <ul style="list-style-type: none"> - fYi` gUV` Y` fh` Y` hYbXYfYf` a i gh` \Uj` Y` U` HJ` _Y!` VUW` _gmghYa`]b` d` UWk` - fYVWUV` Y` f]]Z` h` YfY` UfY` a i b]]dU` Vt` YW]cb` ZUW]h]Yg`]b` d` UW` Zcf` fYVW]b[` k` - Vt` a` dcghUV` Y` UWk` fX]b[` hc` 9B` %(- -) . &\$ \$+` cf` 9B` %(` & . &\$ \$` ghUbXUfXz`]Z` h` YfY` UfY` a i b]]dU` Vt` a` dcgh]b[` ZUW]h]Yg` UWV` dh]b[` gi` W`]hYa` g` <p>J`Yf]Z]W]h]cb.`</p> <p>=Z` Vt`bH]bYfg` UfY` fYi` gUV` Yz` hYbXYfYfg` a i gh` dfcj`]XY` U` XYgW]dh]cb` cZ` h` Y` HJ` _Y!` VUW` _gmghYa`</p> <p>=Z` h` Y` Vt`bH]bYfg` UfY` fYVWUV` Yz` U` XYWUfUh]cb` cZ` Vt` a` d`]UbW` k`]h` h`]g` W]hYf]cb` a i gh` VY` gi` dd`]YX`</p> <p>HYbXYfYfg` a i gh` U` gc` dfcj`]XY` U` Wt` dmi` cZ` h` Y` g] [bYX` U[fYYa` Ybh` k`]h` h` Y` d` Ubh` bi` fgYfnz`]Z` h` Ym` UfY` bch` h` Y` d` Ubh` bi` fgYfm`</p> <p>=Z` Vt`bH]bYfg` UfY` Vt` a` dcghUV` Yz` hYbXYfYfg` a i gh` dfcj`]XY` hYgh` fYdcfhg` g` ck`]b[` h` Uh` h` Y` Vt` a` dcg]h]cb` cZ` h` Y` a` UhYf]U` g` Z` Z` g` h` Y` fYei`]fYa` Ybhg` UWk` fX]b[` hc` 9B` %(- -) . &\$ \$+z` 9B` %(` & . &\$ \$` ghUbXUfXz` cf` Yei`]j` U` Ybh`</p>
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HG` "'=bj` Ug]j` Y` U`]Yb` gdYVW]g`
(Same formulation for Core and Comprehensive)

Note: Preference should be given to plant species native to the area. If alien species are planted, ascertain that they will not become invasive, and take into account local or national policies for the control of invasive alien species, and the European policies on invasive alien species (EU Regulation 1143/2014).

H` Y` cfbUa` YbhU` d` Ubhg` di` fW` UgYX` a i gh` VY` bUh]j` Y` =Z` U`]Yb` gdYVW]g` UfY` d` UbhYXz`]h` g` U` VY` UgW` fhU]bYX` h` Uh` h` Ym` k`]` bch` VYVt` a` Y`]bj` Ug]j` Y`

J`Yf]Z]W]h]cb.`

H` Y` hYbXYfYf` a i gh` dfcj`]XY`]bZcfa` Uh]cb` f` bUa` Yk` cZ` cfbUa` YbhU` d` Ubhg` hc` VY` gi` dd`]YX`

Explanatory Note

9l` dYfhg` UfY` hc` VY` Vt` bgi` hYX` Zcf` [i]XUbW` hc` XYhYfa`]bY` k` \Yh` Yf` h` Y` d` Ubh` gdYVW]g` UfY` bUh]j` Y` gdYVW]g` z` cf`]Z` h` Ym` UfY` U`]Ybz` h` Uh` h` Ym` k`]` bch` VYVt` a` Y`]bj` Ug]j` Y`]Z` h` YfY`]g`]a`]hYX`]bZcfa` Uh]cb`

cb`h\Y`hmdYg`cZ`gdYVWYg`=b`UXX]h]cbz`]h`a`i`gh`VY`UgWfHJ]bYX`h`Uh`h`Y`d`Ubh`gdYVWYg`a`UHW`h`Y`
`cW`g]hY`V`bX]h]cbg`f]gc`gZ`\nXfc`c[`nZ`dfYV]d]H]h]cbz`XfU]bU[`Yz`gi`b`X]ghf]Vi`h]cbz`YH`@cW`cf`
bUh]cbU`]ghg`cZ`]bj`Ugj`Y`d`Ubh`gdYVWYgZ`Ug`k`Y`Ug`h`Y`@gh`cZ`=bj`Ugj`Y`5`]Yb`GdYVWYg`cZ`I`b]cb`
V`bWfb`XYHJ]YX`]b`FY[`i`Uh]cb`%`(``#&`\$`%`(``a`i`gh`VY`fYZYffYX`h`c`"

5k UfX`7f]hYf]U`

57%"`5XX]h]cbU`cfbUa`YbHU`d`Ubhg`
Dc]bhg`k`]`VY`Uk`UfXYX`]b`dfcdcfh]cb`hc`
YUW`%\$`i`]`ja`dfcj`Ya`Ybh`i`dcb`h`Y`
a`]b]a`i`a`hYV`b]W`gdYV]Z]W]h]cb`cZ`Wf]h]Z]YX`
=DA`cf`cf[`Ub]W`cfbUa`YbHU`d`Ubh` (*to be
detailed to which extent more points will
be attributed to the improvement on
organic plants, which must be given more
points than IPM*)`
.
J`Yf]Z]W]h]cb.`
GYY`UVcj`Y`HG%`"

57%"`5XX]h]cbU`cfbUa`YbHU`d`Ubhg`
Dc]bhg`k`]`VY`Uk`UfXYX`]b`dfcdcfh]cb`hc`
YUW`%\$`i`]`ja`dfcj`Ya`Ybh`i`dcb`h`Y`
a`]b]a`i`a`hYV`b]W`gdYV]Z]W]h]cb`cZ`Wf]h]Z]YX`
=DA`cf`cf[`Ub]W`cfbUa`YbHU`d`Ubh` (*to be
detailed to which extent more points will
be attributed to the improvement on
organic plants, which must be given more
points than IPM*)`
.
J`Yf]Z]W]h]cb.`
GYY`UVcj`Y`HG%`"

9l`d`UbUhc]fmbchYg`

CfbUa`YbHU`d`Ubhg`
*The contracting authority will have to specify how the percentage of purchase will be
calculated, either in number or value. It could also require that for specific plants all of them
should be organic to facilitate verification.* =Z`h`YfY`UfY`bch]cf[`Ub]W`cfbUa`YbHU`d`Ubhg`]b`h`Y`
bUh]cbU`#FY[`]cbU`a`Uf`YhZ`h`Y`V`bhfUW]b[`]Ui`h]cf]m`a`Um`gYh`h`Y`dYfW`bhU[`]Y`cZ`cf[`Ub]W`Ug`
nYfc`"
^{Uk}·L`i`UbX`M`#`K`i`UbX`M`h`fYg`c`Xg`h`c`VY`XYZ]bYX`Vm`h`Y`dfcW`fYf`
^{Vk}·5`h`h`Y`h]a`Y`cZ`k`f]h]b[`]z`h`Y`A`DG!`5`D`Wf]h]Z]W]h]cb`gW`Ya`Yz`h`Y``@C65@`5`D`Zck`Yfg`UbX`
d`Ubhg`gW`Ya`Y`Uj`Y`Ya`VYXXYX`k`]h]b`h`Ya`df]bV]d`Yg`cZ`=DA`Ug`U`fYei`]fYa`Ybh`UbX`a`Um`VY`
V`b]g]XYfYX`h`c`dfcj`]XY`gi`Z]W]Yb]h]Uggi`fUbW`Zcf`=DA`dfcXi`W]cb`"

(`"&`Gc]`]`ja`dfcj`Yfg`

F`Uh]cbU`Y`

Gc]`]`ja`dfcj`Yfg`UfY`a`UhYf]U`g`UXXYX`h`c`U`gc]`h`c`]`ja`dfcj`Y`]hg`d`mg]W`
dfcdYf]h]YgZ`gi`W`Ug`k`UhYf`fYhYbh]cbz`dYfa`YUV`]mZ`k`UhYf`]bZ]hfUh]cbz`
XfU]bU[`Yz`UYfUh]cb`UbX`ghfi`W`fY`"`H`Y`[`cU`]g`h`c`dfcj`]XY`U`VYhYf`
Ybj`]fcb`a`Ybh`Zcf`fcchg`"

5`a`i`W`]g`U`UmYf`cZ`a`UhYf]U`fi`gi`U`mi`cZ`cf[`Ub]W`bUhi`fY`Udd`]YX`h`c`h`Y`
gi`fZUW`cZ`gc]`"5`h`ci`[`\`h`Ymi`UfY`bchZ`ghf]W`mi`gdYU_]b[`]z`V`b]g]XYfYX`gc]`
]`ja`dfcj`Yfg`f]gc]`]`ja`dfcj`Yfg`a`i`gh`VY`h`c]fci`[`\`mi`a`]l`YX`]bhc`h`Y`gc]`z`k`\`Y`
a`i`W`]g`Y`Zi`cb`h`Y`gc]`gi`fZUW`Z`cf[`Ub]W`a`i`W`Yg`fYXi`W`Yj`UdcfUh]cb`UbX`
fi`bcZz`]b\`]V]h`k`YXX`[`fck`h`z`UbX`W`YUhy`Ub`UhfUW]j`Y`UddYUfUbW`"C`f[`Ub]W`
a`i`W`Yg`a`Um`VY`]bW`dfcdcfUhYX`]bhc`h`Y`gc]`Ug`Ua`YbXa`Ybhg`U`Z`Yf`h`Ymi`\`Uj`Y`
XYV`a`dcgYX`h`c`h`Y`dc]bh`h`Uh`h`Ym]bc`cb[`Yf`gYfj`Y`h`Y]f`di`fdcgY`"

H\YfY' UfY' h k c' VfcUX' W\hY[cf]Yg' cZ' gc]' ja dfcj Yfg' cf[Ub]WUbX']bcf[Ub]W
Cf[Ub]W]a dfcj Yfg']bW\ XY' dYUž' k ccX' V\]dgž' [fUgg' W]dd]b[gž' ghfUk ž
V\ta dcgž' a Ubi fYž' V]cgc']Xgž' gUk Xi gh UbX' k ccX' Ug\'' =bcf[Ub]W]ja dfcj Yfg'
]bW\ XY' j Yfa]W']hYž' dYf']hYž' UbX' hmfY' V\i b_g''

DYUh']g' Ub' U\W\ a i' U\]cb' cZ' XYW\mYX' j Y[YHUh]cb' cf' cf[Ub]Wa U\hYf'' =h' Zcfa g'
k \Yb' d' Ubh' a U\hYf]U'g' UfY']b\]V]hYX' Z'ca' XYW\m]b[' Z' 'm' VmU\W\X]W\W\ bX]h]cbg''
9j Yb' h' ci [\ dYUh' \ Ug' U' V]c' c[]W\ ' cf[] [bž' Xi Y' h' c' h' Y' g' c' k' fY[YbYfUh]cb' fU\hY'
]h']g' V\bg]XYfYX' bcb! fYbYk UV' Y' a U\hYf]U'' H\]g' a YUbg' h' Uh' dYUh' UbXg' g' h' c' fY'
' Uf[Y' Ua ci bhg' cZ' W\ fVcb' h' Uh']g' fY' YUgYX' Xi Y' h' c' dYUh' a]b]b[ž' gc' h' Ym UfY'
Ub']a dcfHUbh' gci fW' cZ' ; < ; ' Ya]gg]cbg'' 6YW\i gY' cZ' h' U\ž' h' Y' i gY' cZ' dYUh'
g\ci ' X' VY' a]b]a]nYX''

H\Y' U' hYfbUh]j Yg' h' c' dYUh' VUgYX' gc]' ja dfcj Yfg' UfY' V\ta dcgh' UbX' X][YghU\hYž'
Ua cb[' ch\Yfg'' 7ca dcgh']g' h' Y' fYgi' h' cZ' h' Y' V\ta dcgh]b[ĐcZ' cf[Ub]Wk UghYž'
a YUb]b[' U' ghUV]]gUh]cb' UbX' V\ bX]h]cb]b[' hfYUha Ybh VUgYX' cb' h' Y' UYfcV]W
XY[fUXUh]cb' cZ' V]cXY[fUXUV' Y' k UghY'' Bck UXUmž' a Ubm' a i b]W\ dU']h]Yg' \Uj Y'
ZUW\]h]Yg' h' c' dcfW\gg' h' Y' V\ta dcgh' UbX' dfcj]XY']h' Zcf' \cfh]W' h' fY'' 5bUYfcV]W
X][Ygh]cb']g' Ubch\Yf' dcfW\gg' h' c' ghUV]]gY' k UghY' h' Uh' dcfXi W\g' V]c[Ug' Ug' Vm'
dfcXi W\'' H\Y' ci hdi h' cZ' h']g' dcfW\gg']g' _bck b' Ug' X][YghU\hY'' BYj Yfh\Y' Yggž'
h' Y' V\ b' h' c' cZ' h' Y' ei U']m' cZ' V\ta dcgh' UbX' X][YghU\hY']g']a dcfHUbh' h' c'
a]b]a]nY' Ya]gg]cbg' Z'ca' \UnUfXci g' gi VghUbW\g' cf' Z'ca' h' Y' dfYgYbW' cZ'
\YUj m' a YH' U'g']b' h' Y' a]i h' fY'' H\]g' W\ b' VY' XcbY' Vm' gYh]b[']a]h' j U' i Yg' cb'
\YUj m' a YH' U'g' cf' Vm' fYgh']W]b[' h' Y' i gY' cZ' gca Y' k UghY' ghfYUa g' h' Uh' a Um'
YbhU]' Ybj]fcb' a YbhU' f]g_g' h' c' gc]''' =b' h']g' fY[UfXž' h' Y' V\ fY' W\]hYf]cb'
YI W\ XYg' h' Y' i gY' cZ' V\ta dcgh' UbX' X][YghU\hY' Z'ca' gYk U[Y' gi X[Yž' h' Y'
cf[Ub]W Z'fUW]cb' cZ' a]i YX' a i b]W\ dU' \ci gY\c' X' k UghY' UbX' W\hY[cfmi % cZ'
Ub]a U' Vm' dcfXi W\g'' H\YgY' a U\hYf]U'g' cZ' h' Yb' ZU]' h' c' V\ta d' m' k]h' h' Y']a]h'
j U' i Yg' cb' \YUj m' a YH' U'g' cf' a Um' VY' U' f]g_ Zcf' \i a Ub' \YU' h' ''

H\Y' V\ta dfY\Ybg]j Y' W\]hYf]U' dcfdcgU']g' dUfh]U' m' U][bYX' h' c' h' Y' 9I' '9V\ U\ VY'
cZ' gc]' ja dfcj Yfg' UbX' a i' V\'' : i f\h' Yf']bZcfa Uh]cb' UbX' hYV\ b]W\'']bX]W\h]cbg'
UVci h' gc]' ja dfcj Ya Ybh' UbX' a i' V\'' W\ b' VY' V\ b' gi' hYX']b' fI' ca a]gg]cb'
XYW\]g]cb' fI' E' &\$%) #&\$- - E' cZ' % ' Bcj Ya VYf' &\$%) ' YghUV']g\]b[' h' Y' YV\ c[]W\''
W\]hYf]U' Zcf' h' Y' Uk UfX' cZ' h' Y' 9I' '9V\ ! U\ VY' Zcf' [fck]b[' a YX]Už' gc]' ja dfcj Yfg'
UbX' a i' V\'' H\YgY' W\]hYf]U' U]a' Uh' dfca ch]b[' h' Y' fYV\ W]b[' cZ' a U\hYf]U'g' UbX'
h' Y' i gY' cZ' fYbYk UV' Y' UbX' fYV\ WYX' a U\hYf]U'gž' h' i g' fYXi W\ b[' Ybj]fcb' a YbhU'
XY[fUXUh]cb' UbX' XYW\ YUg]b[' gc]' UbX' k U\hYf' dc' i h]cb' Vm' a YUbg' cZ'
YghUV']g\]b[' ghf]W\'']a]hg' cb' dc' i hUbh' V\ b' W\ b' h' fU]h]cbg']b' h' Y' Z]bU' dcfXi W\''
H\Y' W\]hYf]cb' dcfdcgU' cb' cf[Ub]W V\ b' gh]h' i Ybhg']g' U][bYX' k]h' h' Y' hYfa g'
i gYX' Vm' h' Y' K UghY' : fUa Yk cf_ 8]fYV\]j Y' fB]fYV\]j Y' &\$\$, #, #97E'' H\Ym'
XYZ]bY' h' Y' Y[U' ghUh' g' cZ' a U\hYf]U'gž']Y'' k UghYž' Vm' dcfXi W\gž' U[f]W\ h' fU'
a U\hYf]U'ž' YH\W' k \]W\ YbhU]' g' Y[U' V\ b' gYei YbW\g' Zcf' h' Y]f' hfYUha Ybh' UbX'
X]gdcgU'' <ck Yj Yfž' h' Ym' a Um' VY' X]Z]W\ h' h' c']bhYfdYh' UbX' Udd' m]b' fYU' !]ZY'
dfcW' fYa Ybh' W\gYg'' 5b' YI d' UbU' h' c' fmi bchY' \Ug' VYYb' UXXYX' h' c' \Y' d' W\ f]Zmi'
h' YgY' hYfa g''

8i f]b[' h\Y' gYV\c'XYf' k cf_]b[' [fci d' a YYh]b[ž' U' bi a VYf' cZ ghU_Y\c'XYfg' V\c' a YbhYX' cb' j Uf]ci g' UgdYV\g' cZ h\Y' W]hYf]cb' cb' gc]']a dfcj Yfg" CbY ghU_Y\c'XYf' k Ug]b' dUfh]W' Uf' V\c' bWfbYX' h\Uh' h\YfY' k YfY' bc' gdYV\Z]W]h]cbg' UVci h' h\Y' i gY' cZ]bcf[Ub]Wgc]']a dfcj Yfg' gi V\c' Ug' gUbXž' k \]W\]b' ZUVh']g' h\Y' a cgh' i gYX' a UhYf]U']b' gca Y' V\c' bhf]Yg" 5bch\Yf' ghU_Y\c'XYf' gi [[YghYX' h\Uh' 6Y' []i a' \Ug' Ub' UffUb[Ya Ybh' Zcf' dUdYf' gi X[Y' fKY!]b_]b[' gi X[Y\c' UbX' h\Uh' dUdYf' gi X[Y' V\c' b' VY' i gYX']Z' U' f]g_ ' UbU'mg]g']g' XcbY" H\YfY' ZcfYž' h\Y' d'cgg]V]']m' hc' i gY' dUdYf' gi X[Y' Ug' Ub']bdi h' a UhYf]U' Zcf' V\c' a d'cgh]b[' cf' UbUYfcV]WX]] [Ygh]cb' d' Ubhg']Z' h\Y' f]g_ ' UbU'mgYg' gi d'c'fh']h' g\ci 'X' bch' VY' X]g]WfXYX" H\Y' gUa Y' ghU_Y\c'XYf' ž' fh\Yf' fYa Uf_YX' h\Uh' Ug' h\YfY' UfY' 9K 7' V\c' XYg' Zcf' gi X[Y']b' h\Y' V\c' a dfY\Ybg]j Y' W]hYf]U' UXX]h]cbg' hc' h\Y' h\Y' h' g\ci 'X' VY' a UXY' VUgYX' cb' h\Y' bYk' 9I ' : Yfh]]gYf' FY[i 'Uh]cb' k \]W\ ' dfcdcgYg' hc' VWUf' m' XYZ]bY' []bXi ghf]U' gi X[Y']b' " =h' k Ug' cVgYfY' YX' h\Uh' Zcf' \YUj' mia YhU'gž' h\Y' dfcdcgYX']a]h' j U' i Yg' UfY']b']bY' k]h' h\Y' dfcdcgYX']a]h' j U' i Yg']b' h\Y' XfUZi 9I ' : Yfh]]gYf' FY[i 'Uh]cbž' YI Wdh' Zfca' 7i ' UbX' Nb" H\YgY' UfY' V\c' bg]XYfYX' Ug' a]Wcbi hf]Ybhg' fUbX' bch' Ug' V\c' bhUa]b' Ubhg' k' Vm' h\Y' XfUZi 9I ' : Yfh]]gYf' FY[i 'Uh]cbž' h' i g' h\Y' f']a]h' j U' i Yg' k YfY' gYh' hc' U' a cfY' fY' UI YX' 'Yj Y" @Ughmž' h\Y' fY' Yj UbW' cZ h\Y']a]hg' dfcdcgYX' Zcf' 9" V\c']. 0%\$\$\$ 7: I # [ZfYg\ k Y]] \h' f7: I . V\c' cbm' Zcfa]b[' i b]hg' k Ug' ei Ygh]cbYX' Ug' UV\c' fX]b[' hc' h\Y' ghU_Y\c'XYfž' gi V\c' U']a]h']g' bch' fY' Yj Ubh' Zcf' cf[Ub]WZYfh]']nYfg' UbX' gc]']a dfcj Yfg' Ug' a YUgi f]b[' UbX' fY[i 'Uh]b[' 9' V\c']']b' YbX' dfcXi V\c' cZ V]c' c[]W\ ' hfYUha Ybh' cZ cf[Ub]W]a UhYf]U' g' \Ug' bc' VYbYZ]h' VYW]i gY']h' XcYg' bch' dfcj]XY' Ubm']b' Zcfa Uh]cb']b']bU']gYX' dfcXi V\c' ž' Xi Y' hc' h\Y' ZUV\c' h\Uh']b' bUhi fU' c' W\ ff]b[' V\c' W' a ghU' bW' gž' 9" V\c']' cf' 9bhYfcV\c' W\ g']g' gi V' YW\ hc' fY[fck h\c' k \]W\]g' U' bUhi fU' dfcW' gg' k]h' ci h']bZi YbW]b[' h\Y' dfcXi V\c' ei U']m' " =h' k Ug' fYV\c' a a YbXYX' h\Uh' Zcf' h\Y' Z]bU' dfcXi V\c' UggYgga Ybhž' h\Y' UXYei Uh' dUfUa YhYf' Zcf' \m']YbY' UgdYV\g' g\ci 'X' VY' GU' a cbY' U"

7f]hYf]U' dfcdcgU'

7cfY W]hYf]U'	7ca dfY\Ybg]j Y W]hYf]U'
HYVb]W' GdYV\Z]W]h]cbg'	
<p>HG(" Cf[Ub]W V\c' bgh]h' Ybhg' cZ' gc]']a dfcj Yfg' UbX' a i' W'</p> <p>H\Y' Zc'ck]b[' a UhYf]U' g' UfY' bch' U'ck YX' Ug' cf[Ub]WV\c' bgh]h' Ybhg' cZ' U' Z]bU' dfcXi V\c' i' DYU' h' i' A UhYf]U' g' hc' hU' m' cf' dUfh]U' m' XYf]j YX' Zfca' h\Y' cf[Ub]W' ZfU' W]cb' cZ' a']l' YX' a' i' b]W]dU' \ci gY\c' X' k UghY' gYdUfU' h\Y' fci [\ a YV\c' Ub]W]ž' d\mg]V\c' W' Ya]W]ž' V]c' c[]W\ ' UbX' #cf' a Ubi U' hfYUha Ybh' i' A UhYf]U' g' hc' hU' m' cf' dUfh]U' m' XYf]j YX' Zfca' gi X[Yg' XYf]j YX' Zfca' a' i' b]W]dU' gYk U[Y' k UhYf' hfYUha Ybh' UbX' Zfca' gi X[Y' XYf]j YX' Zfca' h\Y' dUdYf']bXi ghf' m' i' A UhYf]U' g' hc' hU' m' cf' dUfh]U' m' XYf]j YX' Zfca' W]hY[cfm' % Ub]a U' Vm' dfcXi V\c']g'</p>	<p>HG(" Cf[Ub]W V\c' bgh]h' Ybhg' cZ' gc]']a dfcj Yfg' UbX' a i' W'</p> <p>%& H\Y' Zc'ck]b[' a UhYf]U' g' UfY' U'ck YX' Ug' cf[Ub]WV\c' bgh]h' Ybhg' cZ' U' Z]bU' dfcXi V\c' i' A UhYf]U' g' XYf]j YX' Zfca' h\Y' fYV\c' W]b[' cZ' V]c! k UghY' Zfca' gYdUfU' h\Y' V\c' YW]cbž' Ug' XYZ]bYX']b' 5fh]WY' ' cZ' 8]fYV\c' j Y' &\$\$, #, #97' cZ' h\Y' 9i fcdYU' b' DUF]Ua Ybh' UbX' cZ' h\Y' 7ci bV\c' / i' A UhYf]U' g' XYf]j YX' Zfca' W]hY[cfm' & UbX' ' Ub]a U' Vm' dfcXi V\c' Ug' U]X' Xck' b']b' 5fh]WY' ' & cZ' fFY[i' Uh]cb' f97' Bc' %\$* - #&\$\$ - k' cZ' h\Y' 9i fcdYU' b' DUF]Ua Ybh' UbX' cZ' h\Y' 7ci bV\c' UbX' h\YV\c' b]W\ ' ghU' bXUfXg' k \]W\ ' UfY' U]X' Xck' b' Vm']a d' Ya Ybh]b[' FY[i' Uh]cb' f9I' k']</p>

UWwFX]b[hc FY[i`Uh]cb f97E Bc
%\$* - #&\$-\$ - "

J Yf]Z]W]h]cb.

HYbXYfYfg a i gh dfcj]XY` h\Y` XYhU]YX`
Vta dcg]h]cb` cZ` h\Y` dfcXi Ww` h\Y` cf][]b` cZ`
cf[Ub]W` a UHfYf` UbX` U` XYWUfUH]cb` cZ`
Vta d`]UbW` k]h` h\Y` UVcj Y` fYei]fYa Ybhtg"

DfcXi Ww` \c`X]b[h\Y` 9I` 9Vw`UVY` Zcf`
[fck]b[a YX]Uz` gc]`]a dfcj Yfg` UbX` a i` W`
]b` UWwFXUbW` k]h` h\Y` 7ca a]gg]cb`
8YV]g]cb` &\$%) #&\$-\$ - #97%` cf` UbchYf`
fY`Yj Ubh hmdY` = YVw`UVY` Z` Z`]b[h\Y`]ghYX`
W]hYf]Uz` k]` VY` XYYa YX` hc` Vta d`m` C h\Yf`
Uddfcd]UHY` a YUbg` cZ` dfccZ` gi W` Ug` U`
hYVXb]W` Xcgg]Yf` cZ` h\Y` a Ubi ZUVi fYf` cf` U`
hYgh` fYdcfh` cZ` Ub`]bXYdYbXYbh` VcXnz` k]`
U`gc` VY` UWw`dhYX"

%(&#&\$%\$/

- i A UHfYf]U`g` XYf]j YX` Zfca` ZYVW` a UHfYfz`
ghfUk` UbX` ch\Yf` bUhi fU` bcb!\UnUfXci g`
U[f]W` hi fU` cf` ZcfYghfm` a UHfYf]U` Ug`
XYZ]bYX`]b` 5fh]WV` &"%fZ` cZ` 8]fYVW]j Y`
&\$\$, #, #97/'
- i A UHfYf]U`g` XYf]j YX` Zfca` Ubmi` ch\Yf`
V]ca Ugg` Vm]dfcXi Ww`g` Ug` XYZ]bYX`]b`
Ufh]WV`)` cZ` 8]fYVW]j Y` &\$\$, #, #97z` h\U`
UfY` bch`a Ybh]cbYX` UVcj Yz` gi V`YVh` hc` h\Y`
dfcj]g]cbg`cZ`&L`UbX`' L`
- i A UHfYf]U`g` XYf]j YX` Zfca` fYVW]W]b[` cf`
fYVw`j Yfm` cZ` Ubmi` ch\Yf` V]ca Ugg` k UghY`
bch` a Ybh]cbYX` UVcj Yz` gi V`YVh` hc` h\Y`
dfcj]g]cbg`cZ`&L`UbX`' L`"

&L` h\Y` Zc`ck]b[a UHfYf]U`g` UfY` bch`U`ck YX`
Ug`cf[Ub]Ww`bgh]hi Ybhtg`cZ`U`Z]bU`dfcXi Ww`

- i DYUH`
- i A UHfYf]U`g` hchU`m` cf` dUfh]U`m` XYf]j YX`
Zfca` h\Y` cf[Ub]W` ZUVW]cb` cZ` a]YX`
a i b]V]dU` \ci gY\c`X` k UghY` gYdUfUHYX`
h\fc i [\` a YVX`Ub]W]z` d\ng]Vw`VX`Ya]W]z`
V]c`c[]W]`UbX`#cf`a Ubi U`hfYUha Ybh`
- i A UHfYf]U`g` hchU`m` cf` dUfh]U`m` XYf]j YX`
Zfca` gi X[Y` XYf]j YX` Zfca` a i b]V]dU`
gYk U[Y` k UHfYf` hfYUha Ybh` UbX` Zfca`
gi X[Y`XYf]j YX` Zfca` h\Y` dUdYf`]bXi ghfm`
- i A UHfYf]U`g` hchU`m` cf` dUfh]U`m` XYf]j YX`
Zfca` W]hY[cfmi` %` Ub]a U` Vm]dfcXi Ww`
UWwFX]b[hc` FY[i`Uh]cb` f97E Bc`
%\$* - #&\$-\$ - /
- i A UHfYf]U`g` hchU`m` cf` dUfh]U`m` XYf]j YX`
Zfca` gi X[Y`ch\Yf` h\Ub` h\cgY` U`ck YX`]b`
' L`VY`ck "

' L` A UHfYf]U`g` XYf]j YX` Zfca` fYVW]W]b[` cf`
fYVw`j Yfm` cZ` gi X[Y` UfY` cb`mi` U`ck YX`]Z` h\Y`
gi X[Y` Vta d`m` k]h` h\Y` Zc`ck]b[`
fYei]fYa Ybhtg`

U`L` h\Y`mi` UfY`]XYbh]Z]YX` Ug` cbY` cZ` h\Y`
Zc`ck]b[hmdYg` cZ` k UghY` UWwFX]b[hc` h\Y`
9i fcdYUb` @]gh` cZ` K UghYg` Ug` XYZ]bYX` Vm`
f]7ca a]gg]cb` 8YV]g]cb` &\$#\$`#`' aE"

- i \$&\$' \$)` gi X[Y` Zfca` cb!g]hY` YZi Ybh`
hfYUha Ybh`]b` h\Y` dfYdUfUH]cb` UbX`
dfcW]gg]b[cZ` Zi]h`j Y[YhUV`Yg` WfYU`g`
YX]V`Y` c]g` Vw`Vw`Uz` Vw`ZZYz` hYU` UbX`
hcVUWw`/` Vw`bgYf] Y` dfcXi W]cb/` mY`Ugh`
UbX` mY`Ugh`YI` hfUVh`dfcXi W]cbz`a` c`UggYg`
dfYdUfUH]cb` UbX` ZYfa YbhUH]cb"
- i \$&\$(\$`' gi X[Y` Zfca` cb!g]hY` YZi Ybh`
hfYUha Ybh`]b`gi [Uf`dfcW]gg]b["
- i \$&\$) \$&` gi X[Y` Zfca` cb!g]hY` YZi Ybh`
hfYUha Ybh`]b`XU]fmdfcXi Ww`]bXi ghfm`

i \$&\$*\$' ' gi X[Y' Zfca ' cb!g]hY' YZZi Ybh' hfYUha Ybh]b' VU_]b[' UbX' VtbZYV]cbYfmi]bXi ghfm'

i \$&\$+\$) ' gi X[Y' Zfca ' cb!g]hY' YZZi Ybh' hfYUha Ybh]b' hAY' dfcXi V]cb' cZ U'Vt\c']W UbX' bcb! U'Vt\c']W VYj YfU[Yg' fMI WdhVtZZYz'hYU' UbX' VtVtUe''

Vt' hAYm UfY' g]b['Y!gci fW' gYdUfUHXYz' a YUb]b[' hUh' hAYfY' \Ug' VYYb' bc' a]i]b[' k]h' YZZi Ybhg' cf' gi X[Y' ci hg]XY' U'gdYV]Z]WdfcXi V]cb' dfcW'gg''

J Yf]Z]V]h]cb.

HYbXYfYfg' a i gh' dfcj]XY' hAY' XYHJ]YX' Vta dcg]h]cb' cZ hAY' dfcXi Vt' hAY' cf][]b' cZ cf[Ub]W a UthYf' UbX' U' XYWUfUH]cb' cZ Vta d']UbW' k]h' hAY' UVcj Y' fYei]fYa Ybhg''

DfcXi Vtg' \c'X]b[' hAY' 9i ' 9Vt'UVY' Zcf' [fck]b[' a YX]Uz' gc]']a dfcj Yfg' UbX' a i 'Vt']b' UVt'fXUbW' k]h' hAY' 7ca a]gg]cb' 8YV]g]cb' &\$%) #&\$- - #97' cf' UbchAYf' fY'Yj Ubh hmdY' = YVt'UVY' z' z]']b[' hAY']ghYX' W]hYf]Uz' k]' VY' XYYa YX' hc' Vta d'm' ChAYf' Uddfcdf]UH' a YUbg' cZ dfccZ' gi Vt' Ug' U' hYV]b]W' Xcgg]Yf' cZ hAY' a Ubi Z]V]h' fYf' cf' U' hYgh' fYdcfh' cZ Ub']bXYdYbXYbh' VcXnz' k]' U'gc' VY' UVWdhYX''

HG) " <UnUfXci g' gi VghUbWg' fN YUj m a YHU'gt']b'gc]']a dfcj Yfg'

hAY' VtbhYbh' cZ hAY' Zc'ck]b[' Y'Ya Ybhg']b' hAY' Z]bU' dfcXi V] cf' Vtbgh]h' Ybh' a i gh' bch' Yi WYX' hAY' j U' i Yg' g\ck b' VY'ck z' a YUgi fYX']b' hYfa g' cZ Xfm' k Y][\h' fBK' t' cZ hAY' dfcXi V]'

9'Ya Ybh'	a [#_ ['fXk t'
7UXa]i a 'f7Xt'	%)'
7\ fca]i a 'hcHJ' f7fL'	%%\$'
7cddYf' f7i t'	&\$'\$
A YfW' fmfk [t'	%
B]W]Y' fB]t') \$'
@YUX' fDVt'	%&\$'
N]bWfNbt'	* \$'\$

J Yf]Z]V]h]cb.

HYbXYfYfg' a i gh' dfcj]XY' hAY' fY'Yj Ubh' hYgh' fYdcfhg' f9B' % *) \$' cf' Yei]j U'Ybh' 9B' %*%+) ' cf' Yei]j U'Ybh' Zcf' < [t' XYa cbghfUH]b[' hUh'hAY' UVcj Y' V]hYf]cb']g' a YH''

DfcXi Vtg' \c'X]b[' hAY' 9i ' 9Vt'UVY' Zcf' [fck]b[' a YX]Uz' gc]']a dfcj Yfg' UbX' a i 'Vt']b' UVt'fXUbW' k]h' hAY' 7ca a]gg]cb' 8YV]g]cb' &\$%) #&\$- - #97' cf' UbchAYf' fY'Yj Ubh' hmdY' = YVt'UVY' z' z]']b[' hAY']ghYX' W]hYf]Uz' k]' VY' XYYa YX' hc' Vta d'm' ChAYf' Uddfcdf]UH' a YUbg' cZ dfccZ' gi Vt' Ug' U' hYV]b]W' Xcgg]Yf' cZ hAY' a Ubi Z]V]h' fYf' cf' U' hYgh' fYdcfh' cZ Ub']bXYdYbXYbh' VcXnz' k]' U'gc' VY' UVWdhYX''

HG) " <UnUfXci g' gi VghUbWg' fN YUj m a YHU'gt']b'gc]']a dfcj Yfg'

hAY' VtbhYbh' cZ hAY' Zc'ck]b[' Y'Ya Ybhg']b' hAY' Z]bU' dfcXi V] cf' Vtbgh]h' Ybh' a i gh' bch' Yi WYX' hAY' j U' i Yg' g\ck b' VY'ck z' a YUgi fYX']b' hYfa g' cZ Xfm' k Y][\h' fBK' t' cZ hAY' dfcXi V]'

9'Ya Ybh'	a [#_ ['fXk t'
7UXa]i a 'f7Xt'	%
7\ fca]i a 'hcHJ' f7fL'	%%\$'
7cddYf' f7i t'	%%\$'
A YfW' fmfk [t'	%
B]W]Y' fB]t') \$'
@YUX' fDVt'	%%\$'
N]bWfNbt'	' \$'\$

J Yf]Z]V]h]cb.

HYbXYfYfg' a i gh' dfcj]XY' hAY' fY'Yj Ubh' hYgh' fYdcfhg' f9B' % *) \$' cf' Yei]j U'Ybh' 9B' %*%+) ' cf' Yei]j U'Ybh' Zcf' < [t' XYa cbghfUH]b[' hUh'hAY' UVcj Y' V]hYf]cb']g' a YH''

DfcXi Vtg' \c'X]b[' hAY' 9i ' 9Vt'UVY' Zcf' [fck]b[' a YX]Uz' gc]']a dfcj Yfg' UbX' a i 'Vt']b' UVt'fXUbW' k]h' hAY' 7ca a]gg]cb' 8YV]g]cb' &\$%) #&\$- - #97' cf' UbchAYf' fY'Yj Ubh' hmdY' = YVt'UVY' z' z]']b[' hAY']ghYX' W]hYf]Uz' k]' VY' XYYa YX' hc' Vta d'm' ChAYf' Uddfcdf]UH' a YUbg' cZ dfccZ' gi Vt' Ug' U' hYV]b]W' Xcgg]Yf' cZ hAY' a Ubi Z]V]h' fYf' cf' U' hYgh' fYdcfh' cZ Ub']bXYdYbXYbh' VcXnz' k]' U'gc' VY' UVWdhYX''

<p>]b' UvWfXUbVW' k]h' h\Y' 7ca a]gg]cb' 8YV]g]cb' &\$%)#&\$- - #97' cf' Ubch\Yf' fY'Yj Ubh' hmdY' = YVt' UVY' Z' Z']b[' h\Y']ghYX' W]hYf]Uz' k]'' VY' XYYa YX' hc' Vta d'm' Ch\Yf' Uddfcdf]UhY' a YUbg' cZ' dfccZ' gi V\ Ug' U' hYV\ b]W' Xcgg]Yf' cZ' h\Y' a Ubi ZUVi fYf' cf' U' hYgh' fYdcfh' cZ' Ub']bXYdYbXYbh' VcXnž' k]'' U'gc' VY' UVWVdhYX'' </p>	<p>]b' UvWfXUbVW' k]h' h\Y' 7ca a]gg]cb' 8YV]g]cb' &\$%)#&\$- - #97' cf' Ubch\Yf' fY'Yj Ubh' hmdY' = YVt' UVY' Z' Z']b[' h\Y']ghYX' W]hYf]Uz' k]'' VY' XYYa YX' hc' Vta d'm' Ch\Yf' Uddfcdf]UhY' a YUbg' cZ' dfccZ' gi V\ Ug' U' hYV\ b]W' Xcgg]Yf' cZ' h\Y' a Ubi ZUVi fYf' cf' U' hYgh' fYdcfh' cZ' Ub']bXYdYbXYbh' VcXnž' k]'' U'gc' VY' UVWVdhYX'' </p>
<p>.</p>	<p> HG* "D\ ng]W' VtbhUa]bUbhg]b' gc]']a dfcj Yfg' H\Y' VtbhYbh' cZ' ['Uggž' a YHU' UbX' d'Ugh]W k]h' a Yg\ 'g]nY' cZ' 2' &' a a' fh\Y' gi a' cZ' YUW\ Vtbhf]Vi h]cbE']b' h\Y' Z]bU' dfcXi Vh' a i gh' bch' Yl WYX' \$")' i ž' a YUgi fYX']b' hYfa g' cZ' Xfmk Y][\h' </p> <p> J Yf]Z]Vh]cb.' HYbXYfYfg' a i gh' dfcj]XY' h\Y' fY'Yj Ubh' hYgh' fYdcfhg' fI79B#HG' %* &\$&' cf' Yei]j U'Ybh' XYa cbghfUh]b[' h\Uh' h\Y' UVcj Y' W]hYf]cb']g' a Yh' </p> <p> DfcXi Vtg' \c'X]b[' h\Y' 9l' 9Vt' UVY' Zcf' [fck]b[' a YX]Už' gc]']a dfcj Yfg' UbX' a i V\]b' UvWfXUbVW' k]h' h\Y' 7ca a]gg]cb' 8YV]g]cb' &\$%)#&\$- - #97' cf' Ubch\Yf' fY'Yj Ubh' hmdY' = YVt' UVY' Z' Z']b[' h\Y']ghYX' W]hYf]Uz' k]'' VY' XYYa YX' hc' Vta d'm' Ch\Yf' Uddfcdf]UhY' a YUbg' cZ' dfccZ' gi V\ Ug' U' hYV\ b]W' Xcgg]Yf' cZ' h\Y' a Ubi ZUVi fYf' cf' U' hYgh' fYdcfh' cZ' Ub']bXYdYbXYbh' VcXnž' k]'' U'gc' VY' UVWVdhYX'' </p>
<p>.</p>	<p> HG+ "DfcXi Vh'dYfZcfa UbW' cZ'gc]']a dfcj Yfg' U\ DfcXi Vtg' a i gh' bch' UXj YfgY'm UZZYVh' d'Ubh' Ya Yf[YbW' UbX' gi VgYei Ybh[fck h\ / </p> <p> V\ H\Y' cf[Ub]Wa UthYf' Ug' cgg' cb'] [b]h]cb' cZ' h\Y' Z]bU' dfcXi Vh' a i gh' VY' Uh' YUgh' %) i Xfm k Y][\h'fl' '8K E/ </p> <p> V\ H\Y' Xfm' a UthYf' VtbhYbh' cZ' h\Y' Z]bU' dfcXi Vh' a i gh' VY' Uh' YUgh' &) i cZ' h\Y' Ž'Yg\ k Y][\h'fl' : K E'' </p> <p> J Yf]Z]Vh]cb.' HYbXYfYfg' a i gh' dfcj]XY' h\Y' fY'Yj Ubh' hYgh' fYdcfhg' fU' 9B' %* \$, *!% cf' Yei]j U'Ybh' V' 9B' % \$' - ' cf' Yei]j U'Ybh' W' 9B' % \$(\$' cf' Yei]j U'Ybh' XYa cbghfUh]b[' h\Uh' h\Y' UVcj Y' W]hYf]cb']g' a Yh' </p> <p> DfcXi Vtg' \c'X]b[' h\Y' 9l' 9Vt' UVY' Zcf' [fck]b[' a YX]Už' gc]']a dfcj Yfg' UbX' a i V\]b' UvWfXUbVW' k]h' h\Y' 7ca a]gg]cb' </p>

	<p>8YVWg]cb' &\$%) #&\$- - #97' cf' Ubch\Yf' fY'Yj Ubh' hmdY' = YVt' UVY' 'Z' 'Z]'b[' h\Y']ghYX' W]hYf]Uz' k]' VY' XYYa YX' hc' Vta d'm' Ch\Yf' Uddfcdf]UH' a YUbg' cZ' dfccZ' gi W' Ug' U' hYVWb]W' Xcgg]Yf' cZ' h\Y' a Ubi ZUVh' fYf' cf' U' hYgh' fYdcfh' cZ' Ub']bXYdYbXYbh' VcXnž' k]' U'gc' VY' UVWVdhYX''</p>
	<p>HG, "" Df]a Ufm dUH c[Ybg']b' gc]' ja dfcj Yfg' H\Y' Vt'bhYbh' cZ' df]a Ufm dUH c[Ybg']b' h\Y' Z]bU' dfcXi W'a i gh' bchYI WYX' h\Y' Z'ck]b[' Yj Y'g' U' GU'a cbY' U' gdd' UVgYbh']b' &)' [' ZFYg\ k Y] [\ h V' 9"Vt' . 'O%\$\$\$ 7: I # [' ZFYg\ k Y] [\ h f7: I . Vt' cbm' Z'fa]b[' i b]hg'.</p> <p>J Yf]Z]W]h]cb.' HYbXYfYfg' a i gh' dfcj]XY' h\Y' fY'Yj Ubh' hYgh' fYdcfhg' fU' =GC' *) +- ' cf' Yei]j U'Ybh' V' 79B #HF' %*%' ' ' XYa cbghfUh]b[' h\Uh' h\Y' UVcj Y' W]hYf]cb']g'a YH''</p> <p>DfcXi W'g' \c'X]b[' h\Y' 9i' 9Vt' UVY' Zcf' [fck]b[' a YX]Uz' gc]']a dfcj Yfg' UbX' a i W']b' UVWt' fXUbW' k]h' h\Y' 7ca a]gg]cb' 8YVWg]cb' &\$%) #&\$- - #97' cf' Ubch\Yf' fY'Yj Ubh' hmdY' = YVt' UVY' 'Z' 'Z]'b[' h\Y']ghYX' W]hYf]Uz' k]' VY' XYYa YX' hc' Vta d'm' Ch\Yf' Uddfcdf]UH' a YUbg' cZ' dfccZ' gi W' Ug' U' hYVWb]W' Xcgg]Yf' cZ' h\Y' a Ubi ZUVh' fYf' cf' U' hYgh' fYdcfh' cZ' Ub']bXYdYbXYbh' VcXnž' k]' U'gc' VY' UVWVdhYX''</p>
<p>9i d'UbUhc'fmbchYg'</p> <p>%H\Y' 7ca a]gg]cb' 8YVWg]cb' &\$%) #&\$- - #97']g' YI dYVW'X' hc' VY' fYj]gYX']b' h\Y' Z' hi fY'' I dcb' Vt' bW' g]cb' h\g' k]' VY' di V']g\ YX' UbX' Vt' bhfUVW]b[' Ui h\cf]h]Yg' UfY' YI dYVW'X' hc' fYZf' hc' h\Y' fYVWbhj Yfg]cb']b' h\Y' Vt' bhYI h'cZ'h]g' W]hYf]cb''</p> <p>H\Y' hYVWb]W' gdYVWZ]W]h]cb' cb' cf [Ub]WVt' bgh]h' Ybhg' cZ' gc]']a dfcj Yfg']g' U' [bYX' k]h' h\Y' hYfa g' i gYX' Vm'h\Y' K UghY' : fUa Yk cf_ '8]fYVW]j Y' H\Ym'XYZ]bY' h\Y' Y [U' ghU]h' g' cZ'a UHf]U'gž']"Y" k UghYž' Vm' dfcXi W'gž' U [f]W' 'hi fU' a UHf]U'z' YH'W' k \]W' YbHJ]g' Y [U' Vt' bgYei YbW'g' Zcf' h\Y]f' hfYUha Ybh' UbX' X]gdcgU' Gca Y' XYZ]b]h]cbg' UbX' YI Ua d'Yg' UfY']ghYX' VY'ck' hc' \Y'd' h\Y]f' Udd']W]h]cb' .</p> <p>i "A UHf]U'g' XYf]j YX" a YUbg' h\Uh' h\Y' Vt' bgh]h' Ybhg' bYX' hc' VY' h\Y' fYgi 'h' cZ' ghUV]']gU]cb' UbX' Vt' bX]h]cb]b[' hfYUha Ybhg' cZ' h\Y' k UghYž' Ub]a U' Vm' dfcXi Wt' YH'V' H\cgY' hfYUha Ybhg' a Um' VY' UbUYfcV]W X] [Ygh]cbž' Vt' a dcgh]b[ž' dmfc'ng]gž' cf' Vt' a V]bUh]cbg' cZ' X]ZZYfYbh' hfYUha Ybhg''</p> <p>i "FYVW]b ['cZ' V]c! k UghY' Z'ca ' gYdUfUH' Vt' YVW]cbž' Ug' XYZ]bYX']b' 5fh]WV' ' ' cZ' 8]fYVW]j Y' &\$\$, #, , #97' cZ' h\Y' 9i fcdYUb' DUf]Ua Ybh' UbX' cZ' h\Y' 7ci bWV' a YUbg' Vt' a dcgh]b[' cf' UbUYfcV]W X] [Ygh]cb' cZ' h\Y' V]cXY' [FUXUV'Y' [UFXyb' UbX' dUf_ 'k UghYž' ZccX' UbX' _]hW' Yb' k UghY' Z'ca ' \ci gY\c' Xgž' fYghU' fUbhgž' W]hYfYfg' UbX' fYHJ] dfYa]gYgž' gYdUfUH' m' Vt' YVW'X''</p> <p>i "7UH] [cfm' & UbX' ' Ub]a U' Vm' dfcXi W'g' Ug' U]X' Xck b']b' 5fh]WV' ' &" cZ' FY [i 'Uh]cb' f97' Bc' %\$* - #&\$- - cZ' h\Y' 9i fcdYUb' DUf]Ua Ybh' UbX' cZ' h\Y' 7ci bWV' UbX' hYVWb]W' ghU' bXUfXg' k \]W' UfY' U]X' Xck b' Vm']a d'Ya Ybh]b[' FY [i 'Uh]cb' f9i ' ' % &#&\$%%" a YUbg' VcX]Yg' cf'</p>	

dUfhg' cZ Ub]a U'gž' dfcXi Vwg' cZ Ub]a U' cf][]bž' YhWž' bch']bhYbXYX' Zcf' \i a Ub' Včbgi a dh]cbž' h\Uh' UfY' U'ck YX' hc' VY' hfYUHYX' Vmia YUbg' cZ Vča dcgh]b[' UbX' UbUYfcV]W X][Ygh]cb/'

i " : YW' a UHYfž' ghfUk' UbX' chYf' bUhi fU' bcb!\UnUfXci g' U[f]W' hi fU' cf' ZcfYghfma UHYf]U' Ug' XYZ]bYX']b' 5fh]VW' &"%fZ' cZ 8]fYVW]j Y' &\$\$, #, #97" a YUbg' h\Y' fYg]Xi Yg' fYgi' h]b[' Zfca' U[f]W' hi fU' UbX' ZcfYghfmi UVM]j]h]Yg' h\Uh' Xc' bch' \Uj Y' h\Y' Y[U' ghUhi g' cZ k UghY' cf' Vm' dfcXi V' h\YmiXc' bch'dcgY' UbmYbj]fcb a YbhU' cf' \YU'h' f]g_ UbX' UfY' i gi U' mfYi gYX' k]h]b' h\Y' gUa Y' U[f]W' hi fU' cf' ZcfYghfmi UVM]j]hmY'

i " Cf[Ub]WZfUVM]cb' cZ a]i YX' a i b]V]dU' \ci gY\c' X' k UghY' gYdUfUHYX' h' fci [\ a YW]Ub]W]ž' d\mg]VčVX' Ya]W]ž' V]c' c[]W] UbX#cf' a Ubi U' hfYUha Ybh" a YUbg' V]c! k UghY' h\Uh' \Ug' bch' VYYb' Vč' YW]YX' gYdUfUHY' mY'

i " 7UH[cfmi% Ub]a U' Vm' dfcXi Vwg' UVMčfX]b[' hc' FY[i 'Uh]cb' f97k' Bc' %\$* - #&\$\$- " dcgY' \YU'h' UbX' Ybj]fcb a YbhU' f]g_g' fY' UHYX' hc' X]gYUgYg' UbX' VčbhJa]bUbhj' UbX' fYei]fY' gdYV]Z]W]hfYUha Ybhg'

(" 5i hca Uh]W]ff][Uh]cb'gmghYa g'

F Uh]cbU'Y'

=ff][Uh]cb' cZ [fYYb' UfYUg' a Um' YUX' hc' g][b]Z]W]bhi k UHYf' Včbgi a dh]cbž' UbX' bcb! YZ]V]Ybh']ff][Uh]cb' gmghYa g' cZ hYb' dfcj c_Y' [fYU' h' cgg' cZ k UHYf" h\Y' a U]b' di fdcgY' cZ h\Y' dfcdcgYX' W]hYf]U']g' hc' Včbhf]Vi hY' hc' h\Y' fYXi W]cb' cZ k UHYf' Včbgi a dh]cb' Zcf']ff][Uh]cbž' Vm' gYh]b[' W]hYf]U' h\Uh' Ybgi fY' h\Y' YZ]V]YbW]ncZ' h\Y' Ui hca Uh]W]ff][Uh]cb' gmghYa g''

: c`ck]b[' 5<K ; %ž' h\Y' Zcf a i 'Uh]cb' cZ h\Y' W]hYf]cb' cb' 5i hca Uh]W]=ff][Uh]cb' \Ug' VYYb' a UXY' WYUfYf''

7f]hYf]U' dfcdcgU'

7cfY W]hYf]U'	7ca dfY\ Ybg]j Y W]hYf]U'
HYWb]W' GdYV]Z]W]h]cbg'	
<p>HG- "5i hca Uh]W]ff][Uh]cb' <i>(Same formulation for Core and Comprehensive levels)</i> <i>Note: The contracting authority will provide the guidelines based on the water resources availability characteristics specific to the climate and location of the irrigation system</i></p> <p>H\Y' Ui hca Uh]W]ff][Uh]cb' gmghYa g' a i gh' U'ck' Zcf' XYhU]YX' dUfUa Yhf]nUh]cbž' bUa Y'mi]b' k \Uh' VčbW]fbg.'</p> <p>i 5`ck]b[' h\Y' gYh' i d' cZ X]ZYfYbh']ff][Uh]cb' ncbYg/'</p> <p>i Dcgg]V']]hm' hc' UX' i gh' h\Y' j c' i a Y' cZ X]gdYbgYX' k UHYf' Vm' ncbYg/'</p> <p>i Dcgg]V']]hm' hc' dfc[fUa' k UHYf]b[' h]a Y' dYf]cXg' Vm' ncbYg/'</p> <p>i Dcgg]V']]hm' hc' a YUgi fY' gc' \i a]X]hm' Y' Y' UbX' hc' Ui hca Uh]W]m' V' cW' h\Y']ff][Uh]cb' k \Yb']h']g' \] \ Ybci [\ (as defined by the contracting authority)ž' Zcf' YI Ua d' Y' UZ]Yf' fU]bž' Vm' ncbYg.'</p>	
<p>J Yf]Z]W]h]cb.'</p> <p>HYbXYfYfg' a i gh' dfcj]XY' Uddfcdf]UHY' XcW' a YbhUh]cb' XYa' cbg]fUh]b[' h\Uh' h\Y' gY' W]hYf]U' UfY'</p>	

a Yh''

)r'

("(; UfXYb]b['GYfj]Wg'

F Uh]cbU'Y'

Pest control and invasive alien species

H\Y' d'fcXi W'g' U]a YX' Uh'h\Y' dfchYV]cb' cZ' d'Ubhg' V'ei 'X' VY' V]c'c[]W]ž' d\mg]WU' cf' W\Ya]W]'' H\cgY' d'fcXi W'g' Xc' bch' 'i gh' fYZf' hc']bgYV]V]XYg' Vi h' U'gc' \YfV]V]XYgž' Ž' b[]W]XYgž' VUV]Yf]V]XYg' UbX' ch\Yf' gi VghU]bW'g'' D'Ubh' dfchYV]cb']g'i gYX']b[]UfXYb]b['gYfj]W'g' hc' V'ebhfc' 'X]gYUgYž' V'ea dYh]h'c'fg' UbX' hc' Ybgi fY' [fck]b[' UbX' \YU'h\m' d'Ubhg'' I gi U'mž' dYgh' V'ebhfc' ']g' U]a YX' Uh' U' gdYV]U' [fci d' cZ' cf[Ub]ga g/ h\]g' a YUbg' h\Uh' h\]g' h' m'c'c[m' cZ' d'fcXi W'g' \Ug' U' gY'YV]j Y' YZZYV]i U[U]bgh' gdYV]Z]W' dYghg'' BYj Yfh\Y'Yggž' d'fcXi W'g' Zcf' dYgh' V'ebhfc' 'W]b' \Uj Y' V'ei bhYfd'fcXi V]j Y' g]XY' YZZYV]gž' Y'' ['' h\Ym'V'ei 'X' U]Xj YfgY'm' UZZYV]i h\Y' dYgh] bU]i fU' d'fYXU]h'c'fg' cf']bXi W' h\Y' UddYUfUbW' cZ' fYg]ghU]b']bYU[Yg' cZ' k YYXgž' dYghg' cf' X]gYUgYg']b[]YbYfU'' H\Ym' W]b' U'gc' UZZYV]i gdYV]Yg' h\Uh' UfY' V]i V]U' Zcf' V]cX]j Yfg]mž']"Y'' dc'']bU]h'c'fg'' Cj YfU'ž' dYgh' V'ebhfc' ' U]V]cbg' a Umi d'fcXi W' U' bY[Uh]j Y' U'hYfUh]cb' cZ' V]cX]j Yfg]m' C h\Yf']a dU]W'g' fY'UhY' hc' h\Y' YV'el' hcl]W]m]b' gc]ž' k UhYf' UbX' U]f''

H\Y' i gY' cZ' d'Ubh' dfchYV]cb' d'fcXi W'g']b' h\Y' 9i ']g' \] [\m' fY[i 'UhYX'' 5'' d'fcXi W'g' U] U]UV'Y' cb' h\Y' a Uf_Yh' \Uj Y' hc' VY' gi Va]hYX' hc' U' V'ebhfc' ' UbX' U' f]g_ Yj U'i Uh]cb' hc' \i a Ub' \YU'h\ UbX' h\Y' Ybj]fcb' a Ybh' f]i fcdYUb' 7ca a]gg]cbž' &\$% Ł'' 8]fYV]j Y' &\$%- #%&, #97' 8]fYV]j Y' &\$%- #%&, #97' YghU]V]g\Yg' h\Y' Z'Ua Yk cf_ Zcf' h\Y' gi ghU]bU]V'Y' i gY' cZ' dYgh]V]XYgž' UXXfYgg]b[' hcd]W]j gi W\ Ug' h\Y' hfU]b]b[' cZ' i gYfgž' U]Xj]gc'fgž' UbX' X]ghf]Vi h'c'fg' cZ' dYgh]V]XYgž']bgdYV]cb' cZ' dYgh]V]XY' Udd']W]h]cb' Yei]da Ybhž' h\Y' d'fc\]V]h]cb' cZ' UYf]U' gdfU]m]b[ž']a]hU]cb' cZ' dYgh]V]XY' i gY']b' gYbg]h]j Y' UfYUg' YhW' =h' dfca chYg' h\Y' i gY' cZ' =bhY[fUhYX' DYgh' A UbU[Ya Ybh' f=DA Ł']b' cfXYf' hc' Yb\UbW' 'ck' dYgh]V]XY!]bdi h' a UbU[Ya Ybh']bW] X]b[' bcb! W\Ya]W] a Yh\cXg''

H\Y']bj Ug]cb' cZ' U']Yb' gdYV]Yg']g' cbY' cZ' h\Y' a U'cf' W]i gYg' cZ' V]cX]j Yfg]m' cgg']b' 9i fcdY'' =b' UXX]h]cbž']h' V'ebgh]h' hYg' YV'ebca]W]fUZZYV]b[' \i a Ub' \YU'h\ž' XUa U[]b[']bZ'Ughfi V]i fYg' UbX' W]i g]b[' U[f]W' h' fU' 'cggYgŁ' UbX' YV'el' c[]W] d'fcV'Ya g' fKUa U[Y' hc' YV'el'gmghYa g' UbX' YI h]bW]cb' cZ' gdYV]YgŁ' W]i g]b[' Ug' fYgi 'h' 9i F' %&' V]'']cb' XUa U[Yg' dYf' mYUf'' H\Y' 9i ' F Y[i 'Uh]cb' %%(' #&\$%(' cb' =bj Ug]j Y' 5']Yb' GdYV]Yg' \Ug' VYYb' XYj Y'cdYX' hc' V'ebhU]b' h\]g' d'fcV'Ya ž' UbX' a]b]a]nY' h\Y' Ybj]fcb' a Ybh' U' UbX' YV'ebca]W]V'ebgYei YbW'g'' H\Y' 9i fcdYUb' 7ca a]gg]cb' df]cf]h]gYg' U]V]cb' cb' U' 'gh' cZ']bj Ug]j Y' U']Yb' gdYV]Yg' cZ' I b]cb' V'ebW]fbž' UbX' h\Y' F Y[i 'Uh]cb' d'fcj]XYg' U' gYh' cZ' a YUgi fYg' h\Uh']bW] XY' dfYj Ybh]cbž' YUf'm' XYhYV]cb' UbX' fUd]X' YfUX]W]h]cbž' UbX' a UbU[Ya Ybh' f]i fcdYUb' 7ca a]gg]cbž' &\$% Ł''

H\Y' d'fcdcgYX' W]hYf]cb' cb' dYgh' V'ebhfc' ' UbX']bj Ug]j Y' U']Yb' gdYV]Yg' a UbU[Ya Ybh']g' VUgYX' df]a Uf]m' cb' h\Y' d'fcj]g]cb' cZ' Ub' Ubbi U' D\m'c'gUb]hUfmiHfYUha Ybh' D'Ub' h\Uh' YbV'ea dUggYg' h\Y' U]V]cbg' U]a YX' Uh' dYgh' UbX']bj Ug]j Y' U']Yb' gdYV]Yg' V'ebhfc' ' U]V'el'fX]b[' hc' h\Y' 'Y[U' Z'Ua Yk cf_ Zcf']bj Ug]j Y' U']Yb' gdYV]Yg' UbX' =DA ''

H\Y' V\ta dfY\Ybg]j Y`Yj Y`Zcf`h\]g`W]hYf]cb`]g`U][bYX`k]h`h\Y`gi [[Ygh]cbg`
Zfca`ghU_Y\c`XYfg`gYY_]b[`U`a`cfY`Ua`V]h]ci`g`dcb]h]cb`cZ`h\Y`; DD`W]hYf]U`
H\Y`W]hYf]U`dfcdcgU`gYhg`h\Y`YI`W]g]cb`cZ`W\Ya`]W]`dYghg`Zcf`h\Y`V\bfhc`cZ`
dYgh`UbX`]bj`Ugj`Y`gdYV]Ygž`]b`]bY`k]h`c`W]`dfUW]W]g`XYj`Y`cdYX`Vm]gca`Y`
a`i`b]V]dU`]h]Yg`"

Water depletion

8`i`Y`hc`W]a`UHY`]ggi`Ygž`YgdYV]U`m]b`h\Y`Gci`h`cZ`9i`fcdYž`k`UHYf`XYd`Y]cb`
V\bg]h]i`hYg`U`ghfcb[`Ybj`]fcb`a`YbhU`]a`dUW]`cZ`[`UfXYb]b[`UW]j`]h]Yg`
=a`dfcj`Ya`Ybh`UfYUg`Zcf`h\YgY`UW]j`]h]Yg`k`YfY`dfcdcgYX`]b`h\Y`; DD`Zcf`
[`UfXYb]b[`UW]j`]h]Ygž`UbX`]bW]`XY`"

- I`gY`bcb!`dchUV`Y`k`UHYf`Zcf`k`UHYf]b[`
- 7`U`W`UHY`UW]V`fUHY`m]h\Y`k`UHYf`bYXG`cZ`YUW]`[`fYYb`UfYU`
- =bg]U`UbX`dfc[`fUa`a`Y`V\ffYW]m]YZZ]V]Ybh]f]f][`Uh]cb`gm]ghYa`g`
- 5`dd`mia`i`W]b[`Ug`U`dfYj`Ybh]cb`UbX`k`UHYf`gUj`]b[`hYW]b]ei`Yg`
- 5`ffUb[`Y`d`Ubhg`UW]V\fx]b[`hc`h\Y]f`m]Xf]W]fYei`]fYa`Ybhg`
- GY`YW]fY[`]cbU`d`Ubhg`UXUd]hYX`hc`h\Y`k`YU`h`Yf`V\bx]h]cbg`

H\Y`di`f]Z]W]h]cb`cZ`k`UHYf`hc`a`U`Y`]h`gUZY`hc`Xf]b_`fU`gc`_`bck`b`Ug`
dchUV]n]h]cb]`]g`U`dfcXi`W]j`Y`W]U]b`h\U]h`Ug`Ybj`]fcb`a`YbhU`]a`dUW]g`UbX`
V\ghg`]hgY`Z`k`W]`]g`k`m]dchUV`Y`k`UHYf`g\ci`X`bch`VY`i`gYX`Zcf`]ff][`Uh]cb`
UW]j`]h]Yg`"

K`]h`fYgdYV]h`hc`k`UHYf]b[`dfUW]W]gž`h\Y`fYj`]gYX`dfcdcgU`XcYg`bch`]bW]`XY`
h\Y`V\bfhUW]W]U`i`gY`cb`U`k`UHYf`fYei`]fYa`Ybh`gh]`Xm]Zfca`h\Y`hYbXYfYf`Ug`]h`
V\i`X`dchYbh]U`m]X]gW]a`]bUHY`U[`U]bgh]ga`U`hYbXYfYfg`Xi`Y`hc`h\Y`dYfVW]j`YX`
\[`V\gh`cZ`h\Y`YI`YfV]gY`Ug`dc]bhYX`ci`h`Vm]ghU_Y\c`XYfg`K`YfYUgž`]b`cfXYf`
hc`[`i`UfUb]hY`h\Y`gi`ghU]bUV`Y`i`gY`cZ`k`UHYfž`h\Y`c`W]`Ui`h\cf]m]g\ci`X`
ci`h]bY`XYhU]YX`[`i`]XY`]bYg`cb`Vch`k`UHYf`fYei`]fYa`Ybhg`UbX`k`UHYf]b[`dfUW]W]g`gdYV]Z]W]h`hc`h\Y`W]a`UHY`UbX`h\Y`k`UHYf`fYgci`fW`Uj`U]UV`]h]m`

:`i`fh\Yfa`cfYž`Ug`dc]bhYX`ci`h`]b`h\Y`bchY`cZ`h\Y`V\bfhUW]dYfZcfa`UbW]`
W]U`i`gYž`h\Y`V\bfhUW]b[`Ui`h\cf]m]g\ci`X`gdYV]Z]m]h\Y`k`UHYf`gci`fW]ž`
dfYZfUV`m]Ug`U`V\ta`V]bU]h]cb`cZ`fU]b`k`UHYfž`[`fci`bX`k`UHYf`UbX`Z]hYfYX`[`fYm`
k`UHYfž`VUgYX`cb`h\Y`Uj`U]UV`]h]micZ`]bZ]Ughfi`W]i`fY`"

H\Y`W]ffYbh`Zcfa`i`Uh]cb`cZ`h\Y`V\bfhUW]dYfZcfa`UbW]`W]U`i`gY`XcYg`bch`
]bW]`XY`U`gdYV]Z]W]h]cb`cb`a`Ubi`U`]ff][`Uh]cb`Ug`]h`k`ci`X`bch`VY`U][`bYX`k`]h`
h\Y`hYW]b]W]gdYV]Z]W]h]cb`cZ`h\Y`Ui`hca`Uh]W]ff][`Uh]cb`gm]ghYa`g`cf`k`]h`h\Y`
V\bhYbh]cZ`h\Y`V\bfhUW]W]U`i`gYg`cb`k`UHYf]b[`dfUW]W]g`"

Waste generation

D`Ub]h`XY`]j`Yfm]V\i`X`[`YbYfUHY`U`Uf[`Y`Ua`ci`bh`cZ`k`UghY`fbY`gYV]h]cb`(`"%&`
;`UfXYb]b[`gYfj`]W]g`g\ci`X`Ybgi`fY`h\Y`V\ffYW]a`UbU[`Ya`Ybh`cZ`h\]g`k`UghY`
Zck`UbX`gYdUfUHY`Ug`a`i`W]`Ug`dcb]V`Y`fYV]W]UV`Y`cf`fYi`gUV`Y`a`UHYf]U`"b`
UXX]h]cbž`U`h\Y`cf[`Ub]W]k`UghY`f]Z`Uj`U]UV`Y`a`i`gh`VY`V\`YV]W]X`gYdUfUHY`m]`
UbX`V\ta`dcb]hYX`cf`gYbh`hc`U`di`V`]W]V\ta`dcb]h]b[`d`Ub]h`"

H\Y [UfXYb]b['gYfj]W' g\ci 'X' dfcj]XY' a UWX]bYg' hc' g\ fYX' h\Y' fYgi 'hYX' k ccX' Zfca' ZcfYghUW]j]h]Yg' UbX' fY! i gY']h' Ug' a i 'WX']b' g]h' "

Enhancement of biodiversity

=bdi hg' Zfca' ghU_Y\c`XYfg' W' YX' Zcf' h\Y']bW] g]cb' cZ W]hYf]U' hc' dfca chY' V]cX]j Yfg]hm' H\]g' \Ug' VYYb' UXXfYggYX']b' h\Y' fYj]gYX' dfcdcgUz' k \]W']bW] XYg' U' V\bfUW] dYfZcfa UbW' WU]i gY' hc' Ybgi fY' h\Uh' [UfXYb]b['dfUW]W'gž' k \]W' Yb\UbW' V]cX]j Yfg]hmž' UfY' W]ff]YX' ci h' H\Y' dfcdcgYX' V\bfUW] dYfZcfa UbW' WU]i gY']g' U]a YX' df]a Uf]mi Uh' Ybgi f]b['h\Uh' 'bUh' fU' ZcfU' UbX' ZUi bU']g' XYj Y'cdYXž' VYgh' 'UbXgWd]b[' UbX' ZcfYghfmi UW]j]h]Yg' UfY']a d'Ya YbhYXž' UbX' bc' d'Ubh' gdYW]g']g' Xca]bUbh' f]b[fY'Uh]j Y' dfcdcf]cb' hc' chYf' d'Ubh' gdYW]Ygž' " A Ubm' V\i' bh]Ygž' fY[]cbgž' UbX' W]h]Yg' UfY' XYj Y'cd]b[' h\Y]f' ck' b' 6]cX]j Yfg]hmg]hU]hY[]Yg' Uh' U' cW' Yj Yž' UW]fX]b[' hc' h\Y' 9i fcdYUb' ZfUa Yk cf' f5' hJa Ybh' XY' 6UfW' cbUž' &\$% Łž' f6Y' []Ub' BU]cbU' : cW' Dc]bh' hc' h\Y' 7cbj Ybh]cb' cb' 6]c'c[]W' 8]j Yfg]hmi fYX"Łž' &\$% Łž' fB9: F5ž' &\$%Łž'" H\YgY' d'Ubg' UfY' Ub']a dcf]Ubh' V\bf]Vi h]cb']b' cfXYf' hc' dfcj]XY' cW' XU]U' cb' Vch' bUh]j Y' UbX']bj Ug]j Y' U]Yb' gdYW]Ygž' UbX' hc' gYh' h\Y' dc']W]Yg' cZ V\bgYfj Uh]cb' UbX' dfca ch]cb' cZ bUh' fU' gdUW]g" =b']bY' k]h' h\YgY' ghfUhY[]Ygž' h\Y' V\bfUW] dYfZcfa UbW' WU]i gY' UbX' h\Y' Yl' d'UbUchfmi bchY' dfcdcgY' U' gYh' cZ [UfXYb]b['dfUW]W'g' a YUbh' hc' Yb\UbW' V]cX]j Yfg]hmi]b' di V]WgdUW]g" H\YgY' V\ta Y' Zfca' Yl' Ua d'Yg' cZ di V]WdfcW' fYa Ybh' dfcj]XYX' Vmi ghU_Y\c`XYfg" H\Y' V\bfUW]b[' Ui h\cf]hmi k ci 'X' \Uj Y' hc' dfcj]XY' h\Y' V\bfUW]cf' k]h' h\Y']gh' cZ cW' gdYW]Yg' UbX' [UfXYb]b['dfUW]W'g' UXUdhYX' hc' h\Y' cW' V\bx]h]cbg"

5' a UWX]bYfmUbX' j Y\]WYg' Ya d'cmYX']b' h\Y' dfcj]g]cb' cZ [UfXYb]b['gYfj]W'g' a i gh' fYgdYW] h\Y' dfcdcgYX' 9l' ; DD' W]hYf]U' Zcf' a UWX]bYfmUbX' j Y\]WYg']b' 7\UdhYfg') UbX' * fYgdYW]j Y'nž' Ug' k Y' Ug' h\Y' V\ta a cb' W]hYf]U' Zcf' gYfj]W' W]hY[cf]Yg']b' 7\UdhYf' +"

((" '%%' Gi a a UfmcZghU_Y\c`XYfg' V\ta a Ybhg' Zfca' 5 < K ; &'

5' ghU_Y\c`XYf' ghU]hYX' h\Uh' V]cX]j Yfg]hmi]g' U' V\ta d'Yl']ggi Y' UbX' a cfY' XU]U']g' bYYXYX']b' cfXYf' hc' Zcfa i 'UhY' Ub' YZZYV]j Y' W]hYf]cb" H\Y' ghU_Y\c`XYf' k Ug' h\YfYZcfY' i bgi fY' k \Yh\Yf' h\Y' Yb\UbW]a Ybh' cZ bUh]j Y' d'Ubhg']g' VYbYZ]V]U' Zcf' V]cX]j Yfg]hmž' Ug' \Uj]b['gdYW]Yg' Zfca' X]ZZYfYbh' d'UW]g' V\i' X' VY' U'gc' VY' V\bg]XYfYX' hc' VY' a cfY' UXj Ub]U[Yci g"

5bch\Yf' ghU_Y\c`XYf' gi [[YghYX' h\Uh' h\Y' W]hYf]cb' cb' k UghY' a UbU[Ya Ybh' f]b[dUfh]W' Ufž' V\ta dchg]b[']b!g]h' ž' ghfYYh' a UbU[Ya Ybhž' YH]W' k Ug' hc' XYH]YX' Ug' fYei]f]b[' h\Y' d'UW]a Ybh' cZ dUW]U[]b[']b' ghfYYh' k UghY' V\bhU]bYfg']g' bch' ZYUg]V'Y']b' a Ubm' W]gYg' UbX' fYei YghYX' h\Uh' h\Y' W]hYf]cb' k ci 'X' VY' Ygg' gdYW]Z]Wcb' h\]g' dc]bh'

7cbW]fb]b[' h\Y' di fW]UgY' cZ cfbUa YbhU' d'Ubhgž']h' k Ug' dfcdcgYX' Vmi Ubch\Yf' ghU_Y\c`XYf' h\Uh' U' V\bfUW] dYfZcfa UbW' WU]i gY' g\ci 'X' VY' Zcfa i 'UhYX' hc'

* %:

fYei]fY`h`Uh`"Uh`YUgh`Lı` `cZ`di`fW`Ug`YX`cfb`Ua`Ybh`U`d`Ub`hg`a`i`gh`VY`cf[`Ub]W`
É`hc`Yb`Vé`i`fU[`Y`Vé`b`f`U`V`c`f`g`hc`]b`W`Y`U`g`Y`h`Y`d`Y`f`W`b`h`U[`Y`X`i`f]b[`h`Y`Vé`b`f`U`V`
d`Y`f]c`X`""`H`Y`g`U`a`Y`g`h`U`_`Y`c`X`Y`f`b`c`h`Y`X`h`U`h`]h`]g`Y`I`h`f`Y`a`Y`m`X`]Z`]W`h`hc`
Y`j`U`i`U`h`Y`h`Y`ei`U`]m`i`c`Z`U`b`m`U`b`b`i`U`d`l`m`t`c`g`U`b`]h`U`f`m`h`f`Y`U`h`a`Y`b`h`d`U`b`k`\
]W`]g`
f`Y`e`i`Y`g`h`Y`X`V`m`h`Y`W`]h`Y`f]c`b`cb`d`Y`g`h`Vé`b`f`c`U`b`X`]b`j`U`g`]j`Y`U`]Y`b`g`d`Y`W`Y`g`
a`U`b`U[`Y`a`Y`b`h`f`H`G`%`&`U`b`X`g`i`[`Y`g`h`Y`X`h`U`h`]h`k`c`i`X`V`Y`a`c`f`Y`g`i`]h`U`V`Y`U`g`U`
Vé`b`f`U`V`d`Y`f`Z`c`f`a`U`b`W`W`U`i`g`Y`"é`h`]g`U[`f`Y`Y`X`h`U`h`V]c`X`]j`Y`f`g`]h`m`]g`U`Vé`a`d`Y`I`
]g`g`i`Y`U`b`X`a`c`f`Y`X`U`h`U`]g`b`Y`Y`X`Y`X`]b`c`f`X`Y`f`hc`Z`c`f`a`i`U`h`Y`U`b`Y`Z`Y`W`]j`Y`W`]h`Y`f]c`b`"
<`c`k`Y`j`Y`f`U`g`b`c`U`X`X`]h`c`b`U`X`U`h`U`c`f`]b`Z`c`f`a`U`h`c`b`]g`U`j`U`]U`V`Y`hc`f`Y`j`Y`k`h`Y`
W`]h`Y`f]c`b`/`]h`]g`f`Y`h`U`]b`Y`X`k`]h`c`i`h`U`b`m`W`U`b`[`Y`""`

7`c`b`W`f`b`]b[`h`Y`W`]h`Y`f]c`b`cb`k`U`g`h`Y`a`U`b`U[`Y`a`Y`b`h`f]b`d`U`f`h`]W`U`f`z`Vé`a`d`c`g`h`b`[`
]b`!`g`]h`ž`g`h`f`Y`Y`h`a`U`b`U[`Y`a`Y`b`h`ž`Y`h`W`ž`]h`k`U`g`j`]Y`k`Y`X`]a`d`c`f`h`U`b`h`h`U`h`h`Y`
W`]h`Y`f]c`b`V`Y`g`d`Y`W`]W`U`b`X`b`c`h`j`U[`i`Y`c`b`\
c`k`k`U`g`h`Y`Z`f`c`a`h`Y`d`f`c`j`]g`c`b`c`Z`
[`U`f`X`Y`b`]b[`g`Y`f`]W`g`g`l`c`i`X`V`Y`a`U`b`U[`Y`X`"H`Y`f`Y`Z`c`f`Y`h`Y`W`]h`Y`f]c`b`]g`f`Y`h`U`]b`Y`X`
k`]h`U`g`][`h`i`f`Y`Z`c`f`a`i`U`h`c`b`hc`U`W`Vé`a`a`c`X`U`h`Y`h`Y`f`c`Y`c`Z`]W`b`W`X`k`U`g`h`Y`
c`d`Y`f`U`h`c`f`g`""`

H`Y`f`Y`]g`b`c`a`U`f`_`Y`h`]b`Z`c`f`a`U`h`c`b`cb`h`Y`j`c`i`a`Y`c`Z`c`f[`Ub]W`W`h`j`U`h`Y`X`
c`f`b`U`a`Y`b`h`U`d`U`b`h`g`]b`9`i`f`c`d`Y`"A`c`f`Y`c`j`Y`f`ž`h`Y`W`f`f`Y`b`h`Z`c`f`a`i`U`h`c`b`c`Z`H`G`%`\$`
k`c`i`X`Y`b`U`V`Y`h`Y`Vé`b`f`U`V`]b[`U`i`h`c`f]h`m`hc`W`U`d`h`f`Y`h`Y`j`c`i`a`Y`g`U`j`U`]U`V`Y`
k`]h`c`i`h`d`U`W`]b[`h`c`c`a`i`W`V`i`f`X`Y`b`cb`h`Y`h`Y`b`X`Y`f`Y`f`g`U`h`h`Y`g`Y`f`j`]W`Y`j`Y`"
H`i`g`h`Y`]b`h`f`c`X`i`W`]c`b`c`Z`h`Y`g`i`[`Y`g`h`Y`X`7`D`7`k`c`i`X`b`c`h`\
U`j`Y`U`b`m`j`U`i`Y`
U`X`X`Y`X`U`b`X`k`c`i`X`V`Y`f`Y`X`i`b`X`U`b`h`"

H`Y`f`Y`e`i`]f`Y`a`Y`b`h`c`Z`U`b`U`b`b`i`U`d`l`m`t`c`g`U`b`]h`U`f`m`h`f`Y`U`h`a`Y`b`h`d`U`b`k`\
]W`]g`
f`Y`e`i`Y`g`h`Y`X`V`m`h`Y`W`]h`Y`f]c`b`cb`d`Y`g`h`Vé`b`f`c`U`b`X`]b`j`U`g`]j`Y`U`]Y`b`g`d`Y`W`Y`g`
a`U`b`U[`Y`a`Y`b`h`]g`f`Y`h`U`]b`Y`X`]b`]h`g`W`f`f`Y`b`h`Z`c`f`a`U`g`U`h`Y`W`b`]W`]g`d`Y`W`]W`h`c`b`
f`U`h`Y`f`h`U`b`7`D`7`ž`Y`j`Y`b`Z`c`f`h`Y`d`f`c`j`]g`c`b`c`Z`[`U`f`X`Y`b`]b[`g`Y`f`j`]W`g`"H`]g`]g`
V`Y`W`U`i`g`Y`ž`U`g`U`h`Y`W`b`]W`]g`d`Y`W`]W`h`c`b`ž`]h`k`]`Y`b`g`i`f`Y`h`U`h`h`Y`h`Y`b`X`Y`f`Y`f`\
U`g`
h`Y`_`b`c`k`Y`X`[`Y`U`b`X`h`Y`Vé`a`d`Y`h`Y`b`W`Y`g`hc`U`X`X`f`Y`g`g`h`]g`U`g`d`Y`W`i`c`Z`h`Y`Vé`b`f`U`V`
É`Y`b`g`i`f]b[`h`U`h`\
Y`U`h`m`i`d`U`b`h`g`U`f`Y`d`U`b`h`Y`X`ž`f`U`d`]X`m`]X`Y`b`h`]Z`m`]b[`ž`h`f`Y`U`h`]b[`U`b`X`
Vé`a`V`U`h`]b[`]b`j`U`g`]j`Y`d`U`b`h`g`d`Y`W`Y`g`U`b`X`c`f`d`Y`g`h`ž`Y`h`W`ž`!`V`Y`Z`c`f`Y`h`Y`Vé`b`f`U`V`
]g`
U`k`U`f`X`Y`X`""`
...

H`Y`Vé`b`h`Y`b`h`U`b`X`e`i`U`]m`i`c`Z`U`b`m`i`d`U`b`W`U`b`e`i`]h`Y`Y`U`g`]m`i`V`Y`Y`j`U`i`U`h`Y`X`V`U`g`Y`X`c`b`
`c`W`U`X`U`d`h`c`b`g`c`Z`g`c`a`Y`c`Z`h`Y`U`d`d`]W`U`V`Y`f`Y`e`i`]f`Y`a`Y`b`h`g`f`Y`["ž`_`b`c`k`Y`X`[`Y`c`Z`
\
c`k`hc`W`U`f`U`V`Y`f]n`Y`]b`j`U`g`]j`Y`g`d`Y`W`Y`g`/`U`k`U`f`Y`b`Y`g`g`c`Z`]b`h`Y`f`b`U`h`c`b`U`U`b`X`c`W`
]b`j`U`g`]j`Y`g`d`Y`W`Y`g`]b`h`]U`h`j`Y`g`ž`\
c`k`hc`Vé`a`V`]b`Y`"]b`j`U`g`]j`Y`d`U`b`h`a`U`b`U[`Y`a`Y`b`h`
a`Y`h`c`X`g`c`Z`8`]f`Y`W`]j`Y`&`\$`%`+`#`%`&`+`-`cb`h`Y`g`d`Y`W`]W`Vé`b`f`c`a`Y`U`g`i`f`Y`g`U[`U`]b`g`h`
h`Y`]b`h`f`c`X`i`W`]c`b`]b`h`c`h`Y`7`c`a`a`i`b`]m`i`c`Z`c`f[`Ub]g`a`g`\
U`f`a`ž`"hc`d`U`b`h`g`c`f`
d`U`b`h`d`f`c`X`i`W`g`U`b`X`U[`U`]b`g`h`h`Y`f`g`d`f`Y`U`X`k`]h`]b`h`Y`7`c`a`a`i`b`]m`i`A`c`f`Y`c`j`Y`f`ž`
d`l`m`t`c`g`U`b`]h`U`f`m`h`f`Y`U`h`a`Y`b`h`]g`U`f`Y`U`X`m`i`V`Y`]b[`f`Y`e`i`Y`g`h`Y`X`d`i`V`]W`h`Y`b`X`Y`f`g`Z`c`f`h`Y`
d`f`c`j`]g`c`b`c`Z`[`U`f`X`Y`b`]b[`g`Y`f`j`]W`g`]b`9`i`f`c`d`Y`f`9`i`f`c`d`Y`U`b`I`b`]c`b`é`b`h`Y`W`h`U`
D`f`c`d`Y`f`m`i`C`Z`]W`ž`&`\$`%`é`ž`f`C`Z`]W`Z`c`f`é`b`ž`U`g`h`f`i`W`h`f`Y`U`b`X`@`c`[`]g`h`]W`g`]b`
@`I`Y`a`V`c`i`f`[`ž`9`i`f`c`d`Y`U`b`7`c`a`a`]g`g`]c`b`ž`&`\$`%`é`U`b`X`c`Z`Y`f`Y`X`V`m`i`g`Y`f`j`]W`
d`f`c`j`]X`Y`f`g`f`F`]W`U`f`X`c`;`U`f`X`Y`b`g`é`ž`f`G`c`f`][`i`Y`é`ž`f`6`U`f`W`c`b`U`é`<`Y`b`W`h`Y`W`]h`Y`f]c`b`]g`
f`Y`h`U`]b`Y`X`""`

7f]hYf]U`dfcdcgU`

7cfY`W]hYf]U`	7ca dfY\`Ybg]j`Y`W]hYf]U`
<p>HVW`b]W`GdYVWZ]W]h]cbg`</p>	
<p>HG%\$` CfbUa`YbhU`d`Ubhg`UbX`gc`]a`dfcj`Yfg`i`gYX`Zcf`h`Y`dfcj`g]cb`cZ` [UfXYb]b[`gYfj`]Wg`</p> <p>i` h`Y` cfbUa`YbhU`d`Ubhg`gi`dd`]YX`Xi`f]b[` h`Y`dfcj`g]cb`cZ`h`Y`[UfXYb]b[`gYfj`]Wg` a`i`gh`VY`Vta`d`]Ubh`k`h`h`h`Y`fYei`]fYa`Ybhg`cZ`h`Y`fY`Yj`Ubh`h`VW`b]W`gdYVWZ]W]h]cbg`fHG%`hc`HG`E`Uh`7cfY`Yj`Y`"</p> <p>i` h`Y`gc`]a`dfcj`Yfg`i`gYX`Zcf`h`Y`dfcj`g]cb`cZ`h`Y`[UfXYb]b[`gYfj`]Wg`a`i`gh`VY`Vta`d`]Ubh`k`h`h`h`Y`fYei`]fYa`Ybhg`cZ`h`Y`fY`Yj`Ubh`h`VW`b]W`gdYVWZ]W]h]cbg`fHG(`UbX`HG)`E`Uh`7cfY`Yj`Y`"</p> <p>J`Yf]Z]W]h]cb.`</p> <p>GY`h`Y`j`Yf]Z]W]h]cb`cZ`h`Y`fY`Yj`Ubh`h`VW`b]W`gdYVWZ]W]h]cbg`"</p>	<p>HG%\$` CfbUa`YbhU`d`Ubhg`UbX`gc`]a`dfcj`Yfg`i`gYX`Zcf`h`Y`dfcj`g]cb`cZ` [UfXYb]b[`gYfj`]Wg`</p> <p>i` h`Y` cfbUa`YbhU`d`Ubhg`gi`dd`]YX`Xi`f]b[` h`Y`dfcj`g]cb`cZ`h`Y`[UfXYb]b[`gYfj`]Wg` a`i`gh`VY`Vta`d`]Ubh`k`h`h`h`Y`fYei`]fYa`Ybhg`cZ`h`Y`fY`Yj`Ubh`h`VW`b]W`gdYVWZ]W]h]cbg`fHG%`hc`HG`E`Uh`7ca`dfY\`Ybg]j`Y`Yj`Y`"</p> <p>i` h`Y`gc`]a`dfcj`Yfg`i`gYX`Zcf`h`Y`dfcj`g]cb`cZ`h`Y`[UfXYb]b[`gYfj`]Wg`a`i`gh`VY`Vta`d`]Ubh`k`h`h`h`Y`fYei`]fYa`Ybhg`cZ`h`Y`fY`Yj`Ubh`h`VW`b]W`gdYVWZ]W]h]cbg`fHG(`hc`HG)`E`Uh`7ca`dfY\`Ybg]j`Y`Yj`Y`"</p> <p>J`Yf]Z]W]h]cb.`</p> <p>GY`h`Y`j`Yf]Z]W]h]cb`cZ`h`Y`fY`Yj`Ubh`h`VW`b]W`gdYVWZ]W]h]cbg`"</p>
<p>HG%`%`DYgh`Vtbhfc`UbX`]bj`Ug]j`Y`U`]Yb`gdYVWYg`a`UbU[`Ya`Ybh`</p> <p>H`Y`h`Yb`XY`fYf`a`i`gh`dfYg`Ybh`Ub`Ub`bi`U`D`n`tcg`Ub]h`U`fm`H`f`Y`U`h`a`Y`bh`D`Ub`"</p> <p><i>(this could be combined with an award criterion evaluating the quality of such a plan)</i></p> <p>H`Y`g`d`Ub`k`]`h`U`_`Y`]b`hc`U`W`V`i`b`h`c`W`cf`b`U`h]cb`U`dc`]W`Y`g`Z`cf`V`tb`h`f`c`c`Z`]b`j`U`g]j`Y`U`]Y`b`gd`Y`V`W`Y`g`z`U`b`X`h`Y`9`i`f`cd`Y`U`b`dc`]W`Y`g`cb`]b`j`U`g]j`Y`U`]Y`b`gd`Y`V`W`Y`g`f`9`i`F`Y`[i`U`h]cb`%`%`(`#`&`\$`%`(`E`"H`Y`d`Ub`a`i`gh`V`ta`d`m`k`]h`h`Y`dfcj`g]cbg`cZ`9`i`8`]f`Y`W`h]j`Y`&`\$`\$`-`#`%`&`,`#`9`7`cb`h`Y`gi`g`h]j]b`U`V`Y`i`g`Y`c`Z`d`Y`gh]W`X`Y`g`U`b`X`U`W`V`f`X]b[`hc`h`Y`c`W`dc`]W`Y`g`cb`h`Y`i`g`Y`c`Z`V`X`Ya`]W`g`"</p> <p>J`Yf]Z]W]h]cb.`</p> <p>H`Y`h`Yb`XY`fYf`a`i`gh`dfYg`Ybh`h`Y`D`n`tcg`Ub]h`U`fm`H`f`Y`U`h`a`Y`bh`D`Ub`"</p>	<p>HG%`%`DYgh`Vtbhfc`UbX`]bj`Ug]j`Y`U`]Yb`gdYVWYg`a`UbU[`Ya`Ybh`</p> <p>H`Y`h`Yb`XY`fYf`a`i`gh`dfYg`Ybh`Ub`Ub`bi`U`D`n`tcg`Ub]h`U`fm`H`f`Y`U`h`a`Y`bh`D`Ub`z`k`\]W`a`i`gh`cb`m`]b`W`X`Y`b`cb`!`V`X`Ya`]W`h`f`Y`U`h`a`Y`bh`a`Y`h`c`X`g`gi`W`U`g`h`Y`fa`U`z`a`Y`W`U`b]W`cf`V]c`c[`]W`h`f`Y`U`h`a`Y`bhg`"</p> <p><i>(this could be combined with an award criterion evaluating the quality of such a plan).</i></p> <p>H`Y`g`d`Ub`k`]`h`U`_`Y`]b`hc`U`W`V`i`b`h`c`W`cf`b`U`h]cb`U`dc`]W`Y`g`Z`cf`h`Y`V`tb`h`f`c`c`Z`]b`j`U`g]j`Y`U`]Y`b`gd`Y`V`W`Y`g`z`U`b`X`h`Y`9`i`f`cd`Y`U`b`dc`]W`Y`g`cb`]b`j`U`g]j`Y`U`]Y`b`gd`Y`V`W`Y`g`f`9`i`F`Y`[i`U`h]cb`%`%`(`#`&`\$`%`(`E`"`"</p> <p>J`Yf]Z]W]h]cb.`</p> <p>H`Y`h`Yb`XY`fYf`a`i`gh`dfYg`Ybh`h`Y`D`n`tcg`Ub]h`U`fm`H`f`Y`U`h`a`Y`bh`D`Ub`"</p>
7cfY`W]hYf]U`	7ca dfY\`Ybg]j`Y`W]hYf]U`
<p>7cbh`f`U`W`i`D`Y`f`Z`c`f`a`U`b`W`7`U`i`g`Y`g`</p>	
<p>7D7%`K`U`h`Y`f]b[`df`U`W`h]W`g`</p> <p><i>(Same formulation for Core and Comprehensive)</i></p>	

Note: The contracting authority will specify the use of locally recovered water sources (as a combination of rainwater, ground water and filtered grey water) based on the availability of infrastructure in order to allow the contractor to comply with this contract performance clause.

K UghYf]b['dfUW]Wg'a i gh'

- I gY'fU]bž'fYWU]a YXž'fYW]WYX'cf'd\fYU]Wk UghY'k \Yb'hyW]b]W'`mdcgg]V`Y"
- A]b]a]nY'hAY'i gY'cZdchUV`Y`k UghY"
- 5dd'm' a i `W]b['hc' Uj'c]X' Yj UdcfU]cb']b' hAY' UfYUg' gdYW]ZYX' Vmi hAY' Vt'bfUW]b['Ui h\cf]hm'! gY' Ui hca U]W]ff][U]cb' grghYa g' Ug' dfcj]XYX' Vmi hAY' Vt'bfUW]b['Ui h\cf]hm' UbX' Zh' hAY' j'c'i a Y'cZ'X]gdYbgYX' k UghY' UW]t'fX]b['k]h' d'Ubh' bYXg" ðb' h]g' W]gY' hAY' Vt'bfUW]t'cf'k]`VY']b' W]Uf[Y'cZ'hAY'a U]bhYbUbW' cZ'hAY'gU]X']ff][U]cb' grghYa "
- 8Y'j] Yf'k UghY'X]fYW]m'hc'hAY'fcch'ncbY'k \YfY'dcgg]V`Y"
- 5j'c]X' k UghYf]b['hAY' gi'fZUW']b' hAY' \chYgh' dUfhg' cZ' hAY' XUm' k \Yb' Yj UdcfU]cb']g' [fYU]ghž'dUfh]W'Uf'm]b'gi' a a Yf"
- "

FYVt'fXg' cZ' k UghYf]b['dfUW]Wg'a i gh' VY' _Ydh' UbX' a UXY' Uj U]UV`Y' hc' hAY' Vt'bfUW]b['Ui h\cf]hm'Zcf' j Yf]Z]W]h]cb' di fdcgYg" HAY' Vt'bfUW]b['Ui h\cf]hm'ia UmigYh'fi `Yg' Zcf' dYbU'h]Yg' Zcf' bcb! Vt'a d']UbW"

7D7 & "K UghY' a UbU[Ya Ybh'

(Same formulation for Core and Comprehensive)

K UghY' dfcXi WYX' Xi f]b['hAY' W]ffm]b['ci h' cZ' [UfXYb]b['gYfj]Wg'a i gh' VY' Vt'`YW]WYX' gYdUfU]h'm' UbX' a UbU[YX' Ug' Zc`ck'g' f]the contracting authority can/should limit the management options according to the local circumstances).

i 5`cf[Ub]Wk UghY' fXfm' `Uj Ygž' dfi b]b[ž' [fUgg' a i gh' VY' Vt'a d'cghYX' []b]g]h' [ž']b' hAY' Vt'a d'UbmiZUW]h]Yg'cf' VmiVt'bfUW]b['ci h'h]g'dfUW]W' hc' U'k UghY' hfYU]a Ybh'YbhYfd]gY"

i K ccXmi cf[Ub]W k UghY' Z'ca' `VfUbW]Ygž' YhW' a i gh' VY' g\ fYXXYX' []b' g]h' [ž' cf']b' hAY' Vt'a d'UbmiZUW]h]Yg' UbX' i gYX' Ug'a i `W]b[']b' hAY' U[fYXX' UfYUg"

- i DUW]U[]b['k UghY' a i gh' VY' gYdUfU]hYX']b'hc' hAY' Yl']gh]b['i fVUb' k UghY' Z'FUW]cbg' UbX' hfU]bgdcfhYX' Vmi']W]bWYX' k UghY' cdYfU]h'cf'g' hc' U' fYW]W]b['W]b'fY' Uddfcj YX' Vmi' cW]`Ui h\cf]h]Yg' hc' \UbX'Y' UbX' dfcW]gg' hAY' j' U]ci' g' k UghY' Z'FUW]cbg' f]paper, plastic and other - available waste streams to be inserted"ž' <ck Yj Yfž' dUW]U[]b['k UghY' cZ' XUb[Yfci' g' gi' Vgh]UbW]gž' gi' W]`Ug' d'Ubh' dfchYW]cb' dfcXi W]gž' a i gh' VY' X]gd'cgYX' cZ' gUZ'`mi]b' Uddfcj YX' Vt'`YW]cb' dc]bhg' cf' h\fc' i [\ `Ub' Ui h\cf]nYX' k UghY' a UbU[Yf' Zcf' ž' fhAY' hfYU]a Ybh'"

FYVt'fXg' cZ' hAY' a UbU[Ya Ybh' cZ' k UghY' dfcXi WYX' Xi f]b[' [UfXYb]b['cdYfU]h]cbg' a i gh' VY' _Ydh' UbX' a UXY' Uj U]UV`Y' hc' hAY' Vt'bfUW]b['Ui h\cf]hm' Zcf' j Yf]Z]W]h]cb' di fdcgYg" HAY' Vt'bfUW]b['Ui h\cf]hm'ia UmigYh'fi `Yg' Zcf' dYbU'h]Yg' Zcf' bcb! Vt'a d']UbW"

7D7' "DYghVt'bf'c' `UbX']bj Ug]j Y'U']Yb'gdYW]Yg'a UbU[Ya Ybh'

(Same formulation for Core and Comprehensive)

HAY' Vt'bfUW]t'cf'k]`W]ffm'ci h hAY' gYfj]W' UW]t'fX]b['hc' hAY' Phytosanitary Treatment Plan Zc`ck]b['hAY' 8]fYW]j Y'&\$-\$- #%&, #97'cb'gi' ghU]bUV`Y' i gY'cZ'dYgh]W]XYg."

HAY' dfYgYbW' cZ' Ubmi d'Ubhg'cf' Ub]a U'g'gi' gdYW]WYX' hc' VY']bj Ug]j Y' a i gh' VY' fYdcfhYX' hc' hAY' Vt'bfUW]b['Ui h\cf]hm' UbX' UXYei U]h' Vt'bf'c' a YUgi' fYg' a i gh' VY' XYZ]bYX']b' `c]bh' U[fYYa Ybh'"

FYVfXg' cZ d'Ubh' dfchYV]cb' cdYfUH]cbg' Zcf' dYgh' Vbhf' UbX']bj Ugj Y' U]Yb' gdYVYg' a UbU[Ya Ybh' UVM]cbgZ']bW' X]b[' gdYV]Z]WhYVb]ei Yg' UbX' dfcXi Vg' i gYX' a i gh' VY' _Ydh Vm' dfcZyg]cbU' i gYfg' Zc'ck]b[' h'Y'FY[i 'UH]cb' f97E' Bc' %\$+&\$-\$' UbX' a UXY' Uj U]UV'Y' hc' h'Y' Vbhf'UVM]b['Ui h'cf]Im'Zcf'j Yf]Z]Wh]cb' di fdcgYg''

H'Y' Vbhf'UVM]b['Ui h'cf]Im'ia UmigYh'fi 'Yg'Zcf'dYbU'h]Yg'Zcf' bcb! V'a d']UbV''

7D7 ("; UfXYb]b['dfUVM]Vg'UbX'Yb\UbW'a YbhcZ'V]cX]j Yfg]Im

(Same formulation for Core and Comprehensive)

*Note: The contracting authority needs to provide the contractor with the practices to be implemented to enhance biodiversity**

H'Y' Vbhf'UVM]cf' a i gh' V]ffm ci h' [UfXYb]b[' dfUVM]Vg' hc' Yb\UbW' V]cX]j Yfg]Im h'Uh' a Um']bj c] Y'U'V'a V]bU]cb'cZ h'Y'Zc'ck]b[.

! 'Ybgi f]b[' h'Uh' bc' gdYV]Yg' k]'' YI WYX' h'Y' L i ' cZ U'' h'Y' cfbUa YbHU' d'Ubhg' cf' hfYYg' d'UbhYX'

! 'XYj Y'cd]b[' gdcbhUbYci g'bUhi fU''ZcfU'UbX'Z]i bU' f'

! 'ja d'Ya Ybh]b[' VYgh'UbXgV]d]b[' UbX'ZcfYghf'ImUVM]j]h]Yg'a YUgi fYg'Z'

FYVfXg' cZ d'Ubh' gdYV]Yg']bhf'cXi W'Xz' 'UbXgV]d]b[' UbX'ZcfYghf'ImUVM]j]h]Yg' ja d'Ya YbhYX' a i gh' VY' _Ydh UbX' a UXY' Uj U]UV'Y' hc' h'Y' Vbhf'UVM]b['Ui h'cf]Im'Zcf'j Yf]Z]Wh]cb' di fdcgYg'' H'Y' Vbhf'UVM]b['Ui h'cf]Im'ia UmigYh'fi 'Yg'Zcf'dYbU'h]Yg'Zcf' bcb! V'a d']UbV''

9I d'UbU'cfmbchYg'

; UfXYb]b['dfUVM]Vg'UbX'Yb\UbW'a YbhcZ'V]cX]j Yfg]Im

The contracting authority will have to specify the maximum percentage of all the ornamental plants or trees planted that should not be exceeded by each species. Recommended values X=15%.

**Experts are to be consulted to check whether the planted species are native species, or if they are alien, that they will not become invasive. Local or national lists of invasive plant species, as well as the List of Invasive Alien Species of Union concern detailed in Regulation 1143/2014 must be referred to.*

***Where possible, the following practices should be implemented to encourage the development of spontaneous natural flora and fauna:*

- *employ nectar-rich native plants able to provide wildlife benefits*
- *use just organic means of pest control*
- *leave standing decaying wood on site where appropriate to provide a habitat for wildlife*
- *encourage the well-being of desired native species*
- *mark some of the most visible areas with informative posters that explain the purpose of these measures*

+Landscaping and forestry activities should take into account the natural cycle of the plants and the wellbeing of the local fauna, by ensuring that:

- *natural grass areas are cut and maintained as 'meadow grassland'*
- *the pruning activities will be carried out outside of the breeding season*
- *the isolation of the habitats will be avoided ensuring the continuity of the natural systems where possible*

*)

(') 7cghVtbg]XYfUh]cbg'

H\Y`dfUW]Wg`Zcf` [UfXYb]b[`UW]j]h]Yg`dfcdegYX`]b`h\]g`ghi XmiW]b`fYgi`h`]b`
Vtgh]gUj]b[g`Zcf`UXa]b]ghfUh]cbg" 5g`g\ck b`]b`h\Y`YI dYf]YbWV`W]ff]YX`ci h`Uh`
<Ufj UfX`I b]j Yfg]fmfk Uj UfX`I b]j Yfg]mž`&\$% Ł`k]h`Ub`cf[Ub]W`UbXgW]d]b[`
a U]bhYbUbWV`dfc[fUa ž`h\Y`gi ghU]bUV`Y`a UbU[Ya Ybh`cZ [fYYb`UfYUg`W]b`
fYgi`h`]b`cj YfU``UXj UbhU[Ygž`Vch`YVtbc`a]WUbX`Ybj]fcba YbhU``=b`h\Y`Z]fgh`
nYUf`cZ]a d`Ya YbhU]cb`h\Y`dfc[fUa`k Ug`UV`Y`hc`gUj Y`' \$i`cZ`k UhYf`UbX`
fYXi W`h\Y`i gY`cZ`dfcXi Vtg`]bW] X]b[`ZYfh`]nYf`UbX`dfcXi Vtg`Zcf`X]gYUgY`
Vtbfhc`""

H\YfYZcfYž` dYfZcfa]b[` [UfXYb]b[`UW]j]h]Yg`]b` UWVtfxUbWV` k]h`
Ybj]fcba YbhU` W]hYf]U`a Umi Yb\UbWV`gUj]b[g`Zcf`di V`]W UXa]b]ghfUh]cbg"
BYj Yfh\Y`Yggž` UXX]h]cbU` Vtghg`W]b`cW]Vf`VYW]i gY`cZ]Yb`cf[Ub]W`UbX`
Ybj]fcba YbhU`mž]YbX`midfcXi Vtg` \Uj Y`U`\][\Yf`df]WV`cb`h\Y`a Uf`Yh`fY"[""
cfbUa YbhU`d`Ubhgž` YVt!`UVY`YX`Wfh]Z]YX`dfcXi Vtgž`fYi gUV`Y`dUW]U[]b[`
YhV`" 9j Yb`gh`ž` YI dYf]YbWV`g\ck`g`h`Uh`Vccgh]b[`V]cX]j Yfg]hm`UbX`
gi ghU]bUV`Y`a U]bhYbUbWV`cZ [fYYb`UfYUg`W]b`fYgi`h`]b`U`fYXi W]cb`cZ`
]ff][Uh]cb`bYXXg`UbX`d`Ubh`dfchYW]cb`"

) 8fUZhDfcdcgYX`9I ; DD`W]hYf]U`Zcf`A UWX]bYfm`

GWtdY`

A UWX]bYfm`Wta df]gYg`U`k]XY`fUb[Y`cZ`Yei]da Ybh`XYZ]bYX`i bXYf`h`Y`gWtdY`cZ`h`Y`Zc`ck]b[`Y[]g`Uh]cbg.`

- h`Y`a UWX]bYfm`X]fYVW]j Y`&\$\$*#(* #97`
- h`Y`ci`h`Xccf`bc]gY`X]fYVW]j Y`&\$\$\$#%#(#97`f5bbYI`ė`]hYa`Bc"(`*`Ł`
- h`Y`BFAA`YI`U`i`gh`Ya`]gg]cb`fY[i`U]cb`FY[`f9I`Ł`&\$%*`#%*`&`,`

5`gh]b[`cZ`h`Y`Yei]da Ybh`Wtbg]XYfYX`k]h]b`h`Y`W]hYf]U`Zcf`a UWX]bYfm`]g`dfcj]XYX`]b`h`Y`fYj]gYX`gWtdY`UbX`]bW] XYg.`

- [UfXYb]b[`a UWX]bYfm`fY"["`Uk`ba`ck`Yfgz`YX[Y`W`h`Yfgz`YhW`
- a`i`b]V]dU`a UWX]bYfm`fY"["`Wta`dUW]gk`YYdYfg`UbX`gdfYUXYfgŁ`"

) "%A UWX]bYfmZcf`7`YUb]b[`UbX` ; UfXYb]b[`5VW]j]h]Yg`

H\]g`W]hY[cfmi]b]h]U`m`Wtj`YfYX`h`Y`dfcW`fYa`Ybh`cZ`h`Y`a UWX]bYfm`dfcXi`W]g`]XYbh]Z]YX`]b`h`Y`DfY`a`]bUfm`FYdcfh`UbX`HF`%`\$`" :`c`ck]b[`ghU`Y\c`XYfg`]bdi`hgz`h`Y`bUa`Yg`cZ`gca`Y`cZ`h`Y`dfcXi`W]g`Uj`Y`VYYb`WtffYVW]X`Ug`Zc`ck`g.`

- @Uk`b!`a`ck`Yfg`f]bW]X]b[`k`U`!`VY\]bX`cf`f]XY!`cb`[`fUgg`W`h]b[`a UWX]bYgŁ`
- G]W]f]Z]Yfg`
- 7`U]bgUk`g`
- 6fi`g`W`h`Yfg`
- ;`fUgg`hf]a`a`Yf#[`fUgg`YX[Y`hf]a`a`Yf`
- <YX[Y`hf]a`a`Yfg`
- Dfi`bYfg`UbX`g]a`]Uf`\`UbX!`cdYfUHfYX`a`UWX]bYg`
- @YUZ`Wt`YV]cf]g`UbX`YUZ`V`ck`Yfg`
- A`chcf!\`cYg`
- DYXYghf]Ub`Wt`b]hf`c`YX`dck`YfYX`h]`Yfg`
- G`fYXXYfg`#W]ddYfg`fZc`ck]b[`h`Y`XYZ]b]h]cb`Udd`]W]V`Y`hc`[`UfXYb]b[`Yei]da Ybh`Uj`U]UV`Y`]b`h`Y`[i]XY]bYg`Zcf`h`Y`Udd`]W]h]cb`cZ`8]fYVW]j Y`&\$\$\$#%#(#97`f9i`fcdYUb`7`ca`a`]gg]cbz`&\$%+Ł`

5XX]h]cbU`mz`Wta`dUW]gk`YYdYfg`UbX`gdfYUXYfg`dfYj]ci`g`m`W]hY[cf]nYX`Ug`j`Y\]W]Yg`UfY`bck`fYVW]Ugg]Z]YX`]b`7`UdhYf`)`Zc`ck]b[`Wta`a`Ybhg`fYVW]j`YX`Zfca`ghU`Y\c`XYf`cb`HF`%`\$`" 7`UdhYf`*`dfYgYbhg`Ub`YI`hYbg]j`Y`cj`Yfj`]Yk`cZ`h`Y`Ybj`]fcb`a`YbhU`UbX`hYV]b]W]`]ggi`Yg`fY`Uh]b[`hc`h`YgY`dfcXi`W]g`5b`YI`hYbg]j`Y`i`gh]Z]W]h]cb`Zcf`h`g`fYUgcb]b[]g`dfcj]XYX`]b`GYV]cb`&`%`"

) "%%%%`Gi`a`a`UfmcZ`ghU`Y\c`XYfg`Wta`a`Ybhg`Zfca`
5<K ; &

=h`k`Ug`gi`[[YghYX`h`Uh`a`i`b]V]dU`a UWX]bYfm`g\ci`X`VY`a`cX]Z]YX`gc`h`Uhz`]b`UXX]h]cb`hc`h`Y`U`fYUXmi`ghYX`Yei]da Ybhz`]h`]bW]XYg`gbck`fYa`cj]b[`a UWX]bYgZ`UbX`gbck`d`ci`[\`g`5bch`Yf`ghU`Y\c`XYf`fYei`YghYX`Ub`

YI d`UbUh]cb`Ug`hc`k` \`mia UWX]bYfmiZcf`k`YYX`V`bhf`c`UfY`bch`ghYX` \`YfY`UbX`
YI W`XYX`]b`h`Y`V`UdhYf`

GY`Z`dfcdY`YX`gbck`V`ck`Yf`a`UWX]bYg` \`Uj`Y`V`Yb`]bW`XYX`k`]h`]b`h`Y`gh`c`Z`
a`UWX]bYfmi`dfcXi`V`g`Z`ck`]b[`Ub`YI`h`Ybg]`Y`fYj`]Yk`c`Z`h`Y`a`UWX]bYfmi`
Ya`d`cmYX`Zcf`gbck`fYa`cj`U`k` \`]W`fYj`YU`YX`h`Uh`h`Y`hk`c`a`U]b`mi`i`gYX`
Zcfa`g`UfY`gY`Z`dfcdY`YX`gbck`fYa`cj`]b[`a`UWX]bYg`fY"[`" `gY`Z`dfcdY`YX`
gbck`W`h`Yf!`V`ck`Yf`UbX`U`h`UWX`YX`gbck`fYa`cj`]b[`a`UWX]bYg`fY"[`" `gbck`
d`ci`[\`g`z`gbck`W`h`Yfg`Y`h`V`k` \`]W`UfY`Ug`]b`h`f`V`Ub[`YUV`Y`Yei`]da`Ybh`]b`
Z`cb`h`c`Z`g`h`Ub`X`Uf`X`h`fi`W`g`

H`Y`f`Y`Z`c`f`Y`Z`U`f`Yj`]gYX`g`V`d`Y`gh]b[`c`Z`h`Y`Yei`]da`Ybh`V`bg]XYfYX`k`]h`]b`h`Y`
W]h`Yf]U`Zcf`a`UWX]bYfmi`W`f`Y`bh`mi`]bW`XYg`

- ; UfXYb]b[`a`UWX]bYfmi
 - o @Uk`b!`a`ck`Yfg`f]bW`X]b[`k`U`!`V`Y` \`]bX`cf`f]XY!`cb`[`fUgg`W`h]b[`
a`UWX]bYg`
 - o GW]f]Z`Yfg`
 - o 7` \`U]bgUk`g`
 - o 6fi`g` \`W`h`Yfg`
 - o ;`fUgg`h]a`a`Yf#[`fUgg`YX[`Y`h]a`a`Yf`
 - o <YX[`Y`h]a`a`Yfg`
 - o Dfi`bYfg`UbX`g]a`]Uf` \`UbX!`cdYfU`h`YX`a`UWX]bYg`
 - o @YUZ`V`Y`V`h`c`fg`UbX`YUZ`V`ck`Yfg`
 - o A`chcf!` \`cYg`
 - o DYXYgh]Ub`V`b`hf`c`YX`dck`YfYX`h]`Yfg`
 - o G`fYXXYfg`#`W]ddYfg`

- A`i`b]W]d`U`a`UWX]bYfmi`
 - o V`a`d`U`V`h`gk`YYdYfg`z`
 - o gY`Z`dfcdY`YX`gbck`fYa`cj`]b[`a`UWX]bYg`fY"[`" `gY`Z`dfcdY`YX`
gbck`W`h`Yf!`V`ck`Yf`UbX`U`h`UWX`YX`gbck`fYa`cj`]b[`a`UWX]bYg`
fY"[`" `gbck`d`ci`[\`g`z`gbck`W`h`Yfg`Y`h`V`
 - o gdfYUXYfg`

A`UWX]bYfmiZcf`k`YYX`V`bhf`c`i`gYX`]b`DGA`U`W]h]`h]Yg`UfY`X]j`YfgY`UbX`]bW`XY`U`
k`XY`fUb[`Y`c`Z`a`Y`V`Ub]W]`U`h`UWX`a`Ybhg`fY"[`" `a`Y`V`Ub]W]`fU`Yg`z`k`YYX`
Vfi`g`Yg`z`Y`h`V`Zcf`hk`c!`k` \`YY`YX`h`U`V`h`c`fg`cf`Zcf`Z`cb`h` `]b_U[`Yg`hc`f]XY!`cb`
a`ck`Yfg`UbX`gh`f`Y`Y`h`W`Y`Ub]b[`j`Y` \`]W`Yg`cf`h`Y`k`U`!`V`Y` \`]bX`Yb[`]bY`dck`YfYX`
a`UWX]bYg`C`h`Yf`Yei`]da`Ybh`]bW`XYg`_`b`UdgUW`gdfUmYfg`z`Y`h`V`

H`i`g`Z`ca`Ub`9I` ;`DD`dYfgdY`W]h]`Yz`h`Y`a`Y`V`Ub]W]`U`h`UWX`a`Ybhg`UfY`bch`
V`bg]XYfYX`hc`g][`b]Z]W]bhmi]a`d`U`V`h`h`Y`Ybj`]f`c`b`a`Ybh` :`cf`h`]g`fYUgcbz`h`Ymi`
UfY`bch`ZYU`h`fYX`]b`h`Y`gh`c`Z`a`UWX]bYfmi`dfYgYbhYX`k` \`]W`]g`bch`YI` \`Ui`gh]j`Y`
Vi`h`]bX]W]h]j`Y`c`Z`h`Y`a`cgh`i`gYX`]hYa`g`Zcf`DGA`k` \`]W`Xc`fYgi`h`]b`
Ybj`]f`c`b`a`Ybh`U`]a`d`U`V`h`" <ck`Yj`Yfz`h`Y`Yb[`]bYg`c`Z`h`Y`a`UWX]bYg`f`d`f`c`d`Y`]b[`
XYj`]W]g`hc`k` \`]W`h`Ymi`a`Um`VY`U`h`UWX`YX`g` \`ci`X`V`a`d`mi`k`]h`h`Y`fY`Yj`Ubh`
W]h`Yf]U`]b`h`]g`h`Y`V`b]W]`fYd`c`f`h`

) "%"& A UW]bYfmi9b[]bY'9l \ Ui gh'9a]gg]cb'

F Uh]cbU'Y''

H\Y' a U]b' Ybj]fcb a YbhU']a dUW\ fY'UH\YX' hc' h\Y' i gY' cZ' a UW]bYfmi UfY' Yl \Ui gh' Ya]gg]cbg' fgi W\ Ug' WfVcb' a cbcl]XYž' b]hfc[Yb' cl]XYž' YhW\ [YbYfUH\YX' Zfca']bhYfbU' Vta Vi gh]cb' Yb[]bYg' k]h\ \i a Ub' \YU'h\ UbX' Ybj]fcb a YbhU']a d']W]h]cbg' Ug' XYHJ']YX']b' h\Y' DfY']a]bUfmiFYdcfh''

5' k]XY' j Uf]Yhm cZ']bhYfbU' Vta Vi gh]cb' Yb[]bYg' fVta dfYgg]cb!] [b]h]cb' fI7 -Ł' cf' gdUf_!] [b]h]cb' fIŁŁ' UfY' i gYX']b' a cV]Y' a UW]bYfmi XYd'cmYX' Zcf' h\Y' a U]bhYbUbW\ cZ' di V']W gdUWYg'' 7= UbX' G= Yb[]bYg' UfY' fYZffYX' hc' Ug' WfVi fYhcf' UbX']b' YV]cb' Yb[]bYg' fYgdYV]j Ymž' UbX' XYdYbX]b[' cb' h\Y' k cf_]b[' W\W\ cZ' Vch\ Yb[]bYg' hmdYg' a Um VY' Y]h\Yf' h c! ghfc_Y' cf' Zci f! ghfc_Y''

Hk c! ghfc_Y' Yb[]bYg' k]h\ WfVi fYhcf' cf' dfY! W\Ua VYf' Z' Y'']b' YV]cb' UfY' cj YfU'' bc]g]Yfž' a cfY' dc''i h]b[' fYa]h]b[' a cfY' J C 7g' UbX' 7C' Vi h' ck Yf' BCi Ł' Xi Y' hc' h\Y]f']bUV]]hmi hc' Vta d' YhY'mgYdUfUH' h\Y']b' Yh' [UgYg' Zfca' h\Y' Yl \Ui gh' [UgYg'' 7cbgYei Ybhmiž' i d' hc' ' \$i ' cZ' h\Y' Z' Y'']g' i bVi fbtž' k]h\ h\Y' UXX]h]cbU' bYYX' hc']bhfcXi W\ 'i Vf]W]h]b[' c]]bh' h\Y' Z' Y'' W\Ua VYf'' : ci f' ! ghfc_Y' Yb[]bYg' \Uj Y' U' gYdUfUH' fYgYfj c]f' Zcf' Z' Y'' UbX' c]ž' UfY' [YbYfU'mi ei]YhYfž' a cfY' Z' Y'' YZ]V]Ybh' UbX' UfY' Ygg' dc''i h]b[' h\Ub' Vtbj Ybh]cbU' h c' ! ghfc_Y' Yb[]bYg''

Hk c! ghfc_Y' Yb[]bYg' UfY' a cghmi h]]nYX']b' cZ] fcUX' Udd']W]h]cbg' fW\U]bgUk gž' \YUZ' V'ck Yfgž' hf]a a Yfgž' YhW\ Xi Y' hc' h\Y]f'] [\h' k Y] [\h' UbX' \UbX']b[' UV]]hmi fdUfh]W' Uf'mi]b' cj Yf' \YUX' g]h Uh]cbgŁ'' =b' VtbhfUghž' a UW]bYfmi Yei]ddYX' k]h\ Zci f! ghfc_Y' Yb[]bYg' fgi W\ Ug' Uk b' a ck YfgŁ' UfY' i gYX']b' cb! [fci bX' Udd']W]h]cbg'' @Uk ba ck Yfg' k]h\ h c! ghfc_Y' Yb[]bYg' UfY' bc' 'cb[Yf' dfcXi W\X''

A UW]bYfmi Yei]ddYX' k]h\ Yb[]bYg' WdUV'Y' cZ' i g]b[' WYUbYf' Vi fb]b[' Z' Y'g' fY'' ['' Vta dfYggYX' bUhi fU' [Ugž' dfcdUbYŁ' W\ b' \Y'd' fYXi W\ Yl \Ui gh' U]f' Ya]gg]cbg'' <ck Yj Yfž' h\Y' i gY' cZ' Y' YV]W\]W\ 'midck YfYX' a UW]bYfmi fVt fXYX' cf' Vt fX' YggŁ' Vti 'X' Vta d' YhY'mY']a]bUH' X]fYV]h' Yl \Ui gh' U]f' dc''i hUbhYa]gg]cbg'' 5g' h\Ym Xc' bch' fYei]fY' \mXfcWfVcb' Z' Y'g' Zcf' h\Y]f' cdYfUH]cbž' Y' YV]W\]W dck YfYX' UbX' VUHfYfmi dck YfYX' dfcXi W\g' UfY' [YbYfU'mi a cfY' Ybj]fcb a YbhU' midcg]h]j Y'mi fUb_YX' UW cgg' a cgh']a dUW\ W]hY [cf]Yg' fY'' ['' h\Y' UVgYbW\ cZ' X]fYV]h' U]f' dc''i hUbhYa]gg]cbgŁ''

7cfX' Ygg' Y' YV]W\]W a UW]bYg' i gY' h\Y' YbYf[m ghcfYX']b' cb! VcUfX' VUHfYf]Yg' k]h\ h\Y' UXj UbHJ [Y' h\ Uh' h\YfY' UfY' bc' Vt fXg' hc' di '' Ufci bX' UbX' h\Ym Xc' bch' XYdYbX' cb' h\Y' Uj U]UV]]hmi cZ' Y' YV]W\]W [f]X' UbX' a U]bg' dck Yf'' 5' h\ci [\ cdYfUH]b[' h]a Y']g']a]hYX' Vmi h\Y' WdUV]fmi cZ' h\Y' VUHfYfmi k \]W\ XYdYbXg' cb' h\Y' h]a Y' Zcf' U' g]b[' Y' W\ Uf[Y' fŁ\$' hc' * \$' a]bi hYgŁž' fYdcf]g']bX]W]hY' h\Uh' UXj UbW\ a Ybhg']b' VUHfYfmi hYV\bc' c[m \ Ug']bWYUgYX' fi bh]a Yg' Vmi) \$i ' cb' a cgh' hc' g' UbX' dfcj]XYg' Zci f' hc' Y] [\h' \ci fg' cZ' Vt bh]bi ci g' fi bh]a Y' cb' a cgh' hmdYg' cZ' Yei]da Ybh' fGH< @ž' &\$%+UŁ' fGH< @ž' &\$%+VŁ''

5j U]UV'Y' a Uf_Yh']bZcfa Uh]cb']bX]W]hYg' h\Uh' h\YfY']g' U' [fck h\]b' h\Y' g\ UfY' cZ' Vt fXYX' UbX' Vt fX' Ygg' i b]hžž' UbX' U' XYWYUgY']b' h\Y' Ua ci bh' cZ' dYhfc' i b]hžž'

VY]b['gc`X`VY]b['gc`X`fP; A: ž`&\$%+Łż`fk`i`gej`UfbU` ; fci`dž`&\$%`Ł`" `=b`&\$%)`ž`cZ`
h`Y`%+`a`j`]cb`DGA`a`UW`]bYfm`UbX`Yei`]da`Ybh`gc`X`]b`9i`fcdYž`-`-`a`j`]cb`
k`YfY`dYhf`c`i`b]hgž`(" `+`a`j`]cb`V`fXYX`i`b]hgž`UbX`&`(" `a`j`]cb`V`fX`Ygg`i`b]hg`"

=b`9i`fcdYž`Yb[]bYg`YI` \Ui`gh`Ya`]gg]cbg`UfY`W`ffYbh`mi`fY[i`UhYX`Vm`
FY[i`Uh]cb`fP!`Ł`&\$%*`#%*`&`,`cZ`h`Y`9i`fcdYU`b`DUf`]Ua`Ybh`UbX`cZ`h`Y`7`ci`bW`
cZ`%(`GYdhYa`VYf`&\$%*`k` \]W`Udd`]Yg`Ug`cZ`%`>Ubi`Ufm`&\$%+`fh`]g`]g`U`gc`
_bck`b`Ug`h`Y`"BFAA`fY[i`Uh]cb`"Ł`H`Y`BFAA`fY[i`Uh]cb`gYhg`GHU[Y`J`
Yb[]bY`Ya`]gg]cb`fYei`]fYa`Ybhg`fY`Uh]b[`hc`[UgYci`g`UbX`dUfh]W`UhY`dc`i`hUbh`
Ya`]gg]cb` `]a`]hg`f7`UfVcb`a`cbcl`]XY`f7`CŁż`<nXfcW]fVcbg`fk`7Łż`B]hfc[Yb`
cl`]XYg`fBCI`Łż`UbX`DUfh]W`UhYg`fDHŁŁ`UbX`hmdY!`Uddfcj`U`Zcf`U`j`Yfm`k`]XY`
j`Uf]YhmicZ`Yb[]bYg`Zcf`bcb!`fcUX`a`cV]Y`a`UW`]bYfm`]bW`X]b[`h`cgY`i`gYX`Zcf`
h`Y`a`U]bhYb`UbW`cZ`di`V`]WgdUW`g`" `=h`Udd`]Yg`Ug`Zca`%`>Ubi`Ufm`&\$%`Zcf`
Uddfcj`U`cZ`bYk`Yb[]bY`hmdYgž`UbX`k`j`VY`YZYV]j`Y`]b`&\$%-`Zcf`U`g`U`Yg`" `=h`
gYhg`Zcf`h`Y`Z]fgh`h]a`Yž`Zcf`7`=`Yb[]bYg`2`%-`_K`ž`U` `]a`]h`cb`h`Y`bi`a`VYf`cZ`
dUfh]W`UhYg`k` \]W`g`łci`X`Xf]j`Y`h`Y`UXcdh]cb`cZ`X]YgY`dUfh]W`UhY`Z]hYfg`
fBD: gŁ`Yb[]bYg`k`]h`dck`Yf`fUb[Yg`2`%-`_K`fDYf_]bg`9b[]bYg`7ca`dUbm`
@]a`]hYXž`&\$%`Ł`"

Hc`YbV`i`fU[Y`h`Y`di`fW`UgY`cZ`a`UW`]bYfm`k`]h` `ck`Yf`Yb[]bY`YI` \Ui`gh`
Ya`]gg]cbgž`h`Y`VYgh`Uj`U]UV`Y`dYfZcfa`]b[`hYW`bc`c[]Yg`]b`h`Y`a`Uf`_Yh`V`i`X`
VY`i`gYX`Ug`ghUfh]b[`dc]bhg`Zcf`XfUZh]b[`;`DD`W]hYf]U`5`fYj`]Yk`cZ`HmdY`=
YV`UVY`W]hYf]U`g`łck`YX`h`Uh`UdUfh`Zca`h`Y`BcfX]W`9V`UVY`]b[`W]hYf]U`
fY`Uh]b[`hc`Z`Y`V`bgi`a`dh]cb`UbX`YI` \Ui`gh`[Ug`Ya`]gg]cbg`cZ`A`UW`]bYg`Zcf`
dUf`_g`UbX`[UfXYbg`fBcfX]W`9V`UVY`]b[ž`&\$%`Łż`bc`chYf`YV`UVY` \UX`
W]hYf]U`Zcf`h`]g`dfcXi`W`[fci`d`" `H`Y`fł`Yfa`Ub`6`i`Y`5b[Yž`&\$%+`Ł`XcYg`bch`
]bW`XY`fYei`]fYa`Ybhg`Zcf`Yb[]bY`YI` \Ui`gh`Ya`]gg]cbgŁ`" `H`YfYZcfYž`]h`]g`
dfcdcgYX`hc`gYh`h`Y`hYW`b]W`gdYV]Z]W]h]cb`Uh`h`Y`V`fY`Yj`Y`hc`U`][b`k`]h`
YI`]gh]b[`YI` \Ui`gh`U]f`dc`i`h]cb`Ya`]gg]cb`hc`dfca`chY`a`UW`]bYfm`cdYfUh]b[`
k`]h`Yb[]bYg`h`Uh`V`a`d`mk`]h`GHU[Y`J` `]a`]hg`"

5h`h`Y`V`a`dfY`Ybg]j`Y`Yj`Yž`h`Y`hYW`b]W`gdYV]Z]W]h]cb`]g`XYg][bYX`hc`
YbV`i`fU[Y`h`Y`di`fW`UgY`cZ`a`UW`]bYfm`W]dUV`Y`cZ`VY]b[`cdYfUhYX`k`]h`nYfc`
Yb[]bY`YI` \Ui`gh`Ya`]gg]cbg`" `H`YgY`k`ci`X`]bW`XY`V`fXYX`UbX`V`fX`Ygg`
a`UW`]bYfm`hYW`bc`c[]Yg`"

8i`f]b[`5<K` ;`%ž`ghU`_Y`c`XYfg`k`Y`V`a`YX`h`Y`U`][ba`Ybh`cZ`h`Y`V`fY`W]hYf]U`
k`]h`h`Y`GHU[Y`J` `]a`]hg`Vi`h`h`YfY`k`Ug`U`UW`cZ`V`bgYbgi`g`cb`h`Y`W]hYf]cb`
Uh`h`Y`V`a`dfY`Ybg]j`Y`Yj`Y`Ě`h`Y`W]hYf]cb`fYei`]fYX`nYfc`YI` \Ui`gh`Ya`]gg]cb`"
5`ghU`_Y`c`XYf`V`a`d`U]bYX`h`Uh`h`Y`W]hYf]cb`Uh`h`Y`V`a`dfY`Ybg]j`Y`Yj`Y`
k`Ug`hcc`ghf]b[Ybh`UbX`V`i`X`bch`VY`a`Yh`Vma`Ubi`Z]W`fYfg`"

: fca`Ub`9i` ;`DD`dYfgdYV]j`Yž`fYei`Ygh]b[`cb`mi`GHU[Y`J` `Ya`]gg]cb` `]a`]hg`Uh`
Vch`h`Y`V`fY`UbX`V`a`dfY`Ybg]j`Y`Yj`Y`cZ`h`Y`W]hYf]cb`k`ci`X`bch`VY`
gi`Z]W]Ybh`mi`Ua`V]h]ci`g`Ug`h`Y`GHU[Y`J` `]a`]hg`UfY`Ubh]W]dUhYX`hc`Udd`mi`Vm`
>Ubi`Ufm`&\$%-`UbX`h`YfY`]g`Yj`]XYbW`h`Uh`U`a`Uf`_Yh`YI`]ghg`Zcf`U`a`U`cf]hmicZ`
 \UbX`Y`X`a`UW`]bYfm`k` \]W` \Uj`Y`V`fXYX`UbX`V`fX`Ygg`j`Yfg]cbg`fGH=<`@ž`
&\$%`Łż`fk`i`gej`UfbUž`&\$%+`UŁż`fk`i`gej`UfbUž`&\$%+`VŁż`fGH<`=@ž`&\$%`Łż`fF`cVYfh`
6cgW` ;`a`V<ž`&\$%`Ł`" `6UhhYfm`dck`YfYX`f]X]b[`a`ck`Yfg`UfY`U`gc`W`ffYbh`mi`
Uj`U]UV`Y`fGH=,`5ž`&\$%+`Ł`UbX`fk`Ugej`UfbUž`&\$%+`VŁž`Vi`h`h`Y`gW]Y`cZ`h`Y]f`

Uj U]UV]]hmi]g' i b_bck b'' BYj Yfh\Y'Yggž' hc']bWbh]j]gY' h\Y]f' Z fh\Yf' XYj Y'cda Ybh UbX' XYd'cma Ybhž' nYfc' Ya]gg]cbg' f]XY' cb' a ck Yfg' UfY' U'gc' Včj YfYX' k]h\]b' h\Y' gVčdY' cZ h\Y' dfcdcgYX' Vča dfY\Ybg]j Y'W]hYf]cb''''

8i f]b[' 5<K ; %ž ZYXVUW' k Ug' gci [\h Zfca' ghU_Y\c'XYfg' cb' k \Yh\Yf' h\Y' Yb[]bY' i gYZ' ``]ZY'a YUgi fYX' Vmh\Y' Ya]gg]cb' Xi fUV]]hmidYf]cX' f98D'č' g\ci 'X' VY']bhfcXi W'X' hc' gi ddcfh' h\Y' W]hYf]cb' cb' Yb[]bY' YI \Ui gh' Ya]gg]cbg'' h\Y' 98D']g' h\Y' bi a VYf' cZ \ci fg' cfž' k \YfY' Udd']WV'Yž' h\Y' X]ghUbW' i gYX' hc' XYhYfa]bY' h\Y' XYhYf]cfUh]cb' ZUWčfg'' h\Y' XYhYf]cfUh]cb' ZUWčfg' UfY' U' gYh' cZ ZUWčfg' h\Uh']bX]WU' h\Y' fY'Uh]cbg\]d' VYhk YYb' Ya]gg]cbg' Uh' h\Y' ghUfh' UbX' YbX' cZ h\Y' Ya]gg]cb' Xi fUV]]hmidYf]cX' f7i a a]bg' =bVž' &\$%+č''''

Bc' VčbgYbgi g' k Ug' Zci bX' VYhk YYb' h\Y' ghU_Y\c'XYfg'' GhU_Y\c'XYfg' gi ddcfh]b[' h\Y']bhfcXi W]cb' cZ h\Y' 98D' ghU' h\Uh']h' k ci 'X' VY' U' g] [b]Z]WU' bh]a dfcj Ya Ybh hc' gi ddcfh' h\Y' Yb[]bY' YI \Ui gh' Ya]gg]cbg'' <ck Yj Yfž' h\cgY' cddcgYX' hc']h' ei Ygh]cbYX' h\Y' 'j U' i Y' UXXYX' cZ]hg']bhfcXi W]cb' Ug' a UW]bYg' k ci 'X' VY' fY' Uh]j' Y' mbYk' Yj Yb' Uh' h\Y' YbX' cZ U' Y' UgY' dYf]cX' cZ' ' hc') ' mYUfg''

A cfYcj Yfž' Ug' h\Y' Ya]gg]cb' hYgh]b[' cZ Yb[]bYg' h\Uh' \Uj Y' VYb' cdYfUhYX']b' h\Y' Z]Y' X' k]h\]b' h\Y' fY[i 'Uhcfmi gYZ' ``]ZY' h]a Yž' Ua Y' UfY' U]a YX' Uh' Ybgi f]b[' Vča d']UbW' k]h\ h\Y' ']a]hg']a dcgYX' Vmh\Y' BFA A ž' bc' j U' i Y']g' UXXYX' Vmh\Y']bhfcXi W]cb' cZ h\Y' 98D'' h\YfY' ZcfYž' h\Y']bhfcXi W]cb' cZ h\Y' 98D']g' bch' YI d' cfYX' Z' fh\Yf''''

7ca dUW' gk YYdYfg' UfY' a UW]bYg' Ug' XYZ]bYX' Vm h\Y' A UW]bYfm 8]fYW]j Y' &\$ \$* # (a! 'g]bW']h']g' U' j Y\]WY' bch']bhYbXYX' Zcf' i gY' cb' h\Y' fcUX' UbX' k]h\ U' a Ul]a i a 'XYg] [b' gdYXX' bch' YI WYX]b[' &) ' _a #'' h\Y' BFA A' fY[i 'Uh]cb' f9l č' &\$ \$* # %* & , ' U' gc' WUgg]Z]Yg' h\Ya ' Ug' a cV] Y' a UW]bYg']bXYdYbXYbh' ž' ca' h\Y]f' a Ul]a i a 'XYg] [b' gdYXX'' =b' h\Y' ci hXccf' bc]gY' X]fYW]j Y' &\$ \$ \$ # % (#97ž' h\Y' YI \Ui gh' Ya]gg]cb' fY[i 'Uh]cb' &\$ \$* # %* & , ' f9l č' UbX' h\Y' A UW]bYfm 8]fYW]j Y' &\$ \$* # (a' 7ca dUW' gk YYdYfg' UfY' Včbg]XYfYX' Ug' bcb! fcUX' a cV] Y' a UW]bYfm fBFA A č' ' 5' hYfbUh]j Y' m h\Ym Vči 'X' VY' hmdY' Uddfcj YX' Ug' U[f]W' h' fU' hfUWčfg' UWčfX]b[' hc' F Y[i 'Uh]cb' f9l č' %* + # & \$ % ' cf' Ug' gdYV]U' di fdcgY' j Y\]WYg' UWčfX]b[' hc' h\Y' : fUa Yk cf_ 8]fYW]j Y' &\$ \$ + # (* #97'' <ck Yj Yf' h\YgY' hmdY' Uddfcj U' g' UfY' bch' a UbX' Uhcfm UbX' j Yfm fUfY'' : cf' h\YgY' fYUgcbgž' Vča dUW' gk YYdYfg' UfY' Včbg]XYfYX' Ug' BFA A' k]h\]b' h\Y' gVčdY' cZ a UW]bYfmdfcXi W]g' Zcf' h\Y' 9l ; DD' W]hYf]U' Zcf' DGA ''''

5WčfX]b[' hc' 9l ' Y []g' Uh]cbž' Vča Vi gh]cb' Yb[]bYg']bghU' YX']b' Vča dUW' gk YYdYfg' a i gh' Vča d' m' k]h\ F Y[i 'Uh]cb' f9l č' &\$ \$* # %* & , '' 6i h' Xi Y' hc' h\Y' Uj U]UV]]hmi cZ Yb[]bYg' UbX' W' ghca Yfg' ž' fYei Yghž' a Ubi ZUW' fYfg']bghU']bhc' h\Y]f' Vča dUW' gk YYdYfg' Yb[]bYg' k \]W' Vča d' m' k]h\ F Y[i 'Uh]cb' f97č' + %) # & \$ \$ + ' fYa]gg]cbg' ž' ca' '' [\h' dUggYb[Yf' UbX' Vča a YfV]U' j Y\]WYgč' cf' F Y[i 'Uh]cb' f97č') -) # & \$ \$ - ' fYa]gg]cbg' ž' ca' \ YUj miXi hmj Y\]WYgč''

7i ffYbhž' h\YfY' UfY' YI Ua d' Yg' cZ Vča dUW' gk YYdYfg' k \]W' UfY' Yei]ddYX' k]h\ Yb[]bYg' Vča d' m]b[' k]h\ X]Z]YfYbh' Ya]gg]cbg' fY[i 'Uh]cbg']bW' X]b[' 9l F C ' * ž' 9l F C ' J = ' cf' GHU[Y' J' Yb[]bYg' f]c\bg]cb' Gk YYdYfgž' &\$ % + Učž' fl DH' =bXi gh]U' ž' &\$ %* čž' f' k Ulm' 8]YgYž' &\$ % (čž' f' bi W' Yf' A i b]W]dU' ' 5; ž' &\$ % & čž''''

h[g' Ubh]VdUHYX' h\Uh U'' Vta dUVh' gk YYdYfg' UbX' gdfYUXYfg']b' h\Y' a Uf_Yh
g\ci 'X' VY' Uh' YUgh Vta d']Ubh' k]h\ h\Y' GHU[Y' J' 'ja]hg'' H\YfYZcfYz' h\Y' Y[U'
VUW[fci bX']g' i gYX' U' VUg]g' Zcf' hYVb]W' gdYVZ]W]h]cb' Zcf' h\]g' W]hYf]cb' Uh
h\Y' VtFY' Yj Y''

GYH]b[' hYVbc'c[m' VUgYX' fYei]fYa Ybhgž' k \]V\ XYa UbX' Ygg' cf' nYfc' U]f'
dc''i h]cb' Ya]gg]cbg' Vti 'X' a]h[]UH' h\Y' Ybj]fcb' a YbhU']a dUVhg' Zfca'
Vta dUVh' gk YYdYfg'' 9' YVW]Wdck YfYX' cdh]cbg' UfY' ZUj ci fYX' Ug' h\Y' Z' hi fY' Zcf'
Vta dUVh' gk YYdYfg'' H\YgY' Y' YVW]W' m' Xf]j Yb' j Yfg]cbg' UfY' U' fYUXm' Uj U] UV' Y'
fbc\bg'cb' Gk YYdYfgž' &\$%+VŁz' fH\Y' HYbbUbh' 7ca dUbnž' &\$%&Łz' fi b' cb' U'
']h\]i a ']cb' VUHhYfnž' \Uj Y' bc' U]f' dc''i HUbh' Ya]gg]cbgž' UbX' UfY' j]UV' Y' cdh]cbg'
Zcf' UVW]Yj]b[' Ybj]fcb' a YbhU']a dfcj Ya Ybhg'' Hc' di g\ ' Ybj]fcb' a YbhU'
]a dfcj Ya Ybhg' j]U' h\Y' di fVUgY' cZ h\YgYz' Ub' Uk UfX' W]hYf]cb']g' d' fcdcgYX''

**) "%&'% Gi a a UfmcZ'ghU_Y\c'XYfg'Vta a Ybhg'Zfca '
5<K ; &**

5' bi a VYf' cZ X]j Yf[Ybh' Vta a Ybhg' k YfY' fYVW]j YX' cb' h\Y' W]hYf]cb' cZ
a UVW]bYfm' Yb[]bY' Yl \Ui gh' Ya]gg]cb'' 5' ghU_Y\c'XYf' a Ybh]cbYX' h\Uh']b'
Gk YXYb' Vch\ ' Zcf' <YUj m' 8i hm' JY\]WYg' fk 8J Ł' UbX' Zcf' a UVW]bYfmž' h\Y'
XYd'cma Ybh' cZ' Yei]da Ybh' fi bb]b[' cb' fYbYk UV' Y' YbYf[]Yg' k Ug'
]a d'Ya YbhYX'' H\YfYZcfY' Zcf' <8J ž' Uddfcd]f]UH' W]hYf]U' k ci 'X' VY' cbY' k \]V\'
fYei]fYg' h\Y' i gY' cZ fYbYk UV' Y' Z' Ygž' k \]Y' Zcf' VUHhYf]Yg' h\Y']bhYfbUh]cbU'
' UVci f' cf[Ub]gUh]cb' f=@Ł' W]hYf]U' UfY' U' k Umg' i gYX'' H\Y' ghU_Y\c'XYf' U' gc'
UggYfhYX' h\Uh' h\Y' a U]b' Ybj]fcb' a YbhU']a dUVh' Zfca' bcb! fcUX' a UVW]bYfm']g'
; <; ' UbX' VU' Yb[YX' >F 7' hc' VY' Ua V]h]ci g' cb' Y' YVW]Z]W]h]cb' UbX' nYfc!
Yl \Ui gh' Ya]gg]cbg''

5' ghU_Y\c'XYf' U[fYXX' k]h\ h\Y' VtFY' W]hYf]U' VY]b[']b' U][ba Ybh' k]h\ h\Y' 9l '
fY[i 'Uh]cb' cb' Yl \Ui gh' Ya]gg]cb' Vi h' k Ug' cZ h\Y' cd]b]cb' h\Uh' fYei]f]b[' 'ck Yf'
Yb[]bY' Yl \Ui gh' Ya]gg]cbg']g']_Y' m' hc' VY' X]Z]W' h' hc' a YHh' Zcf' a Ubi ZUVh' fYfg'
Ug']h' k ci 'X' fYei]fY' h\Y' fYXYg][b' cZ' a UVW]bYfm'

5' h\]fX' ghU_Y\c'XYf' ghUH' h\Uh' GHU[Y' J' Yb[]bYg' k]'' bch' VY' Uj U] UV' Y' Zcf' U''
a cV]Y' a UVW]bYg' cb' h\Y' 9l !a Uf_Yh' Zfca' &\$%-'' H\YfYZcfYz']b' cfXYf' hc'
Ybgi fY' U' ZU]f' a Uf_Yh' Vta dYh]h]cb']h' g\ci 'X' VY' U' hYfbUh]j Y' m' UVW]dhYX']Z' Ub'
C9A' d' UVW]g' cb' h\Y' 9l !a Uf_Yh' a UVW]bYg' Zfca' U' dfYj]ci g' Ya]gg]cb' ghU[Y'
fH\Ub' J Ł' h\Uh' UfY' i d[fUXYX' cf' fYf' cZ]hYX' k]h\ X]YgY' dUfh]W' UH' Y' Z]hYfg'
fBD: Ł' h\Uh' \Uj Y' U' [fUj]a Yf]WZ]fU]h]cb' YZ]W]YbVmicZ' Uh' YUgh' - \$i ' UbX' \Uj Y'
VYYb' hYghYX' UVW]fX]b[' hc' cbY' cZ h\Y' Zc' ck]b[' W]fh]Z]W]hYg' fBbbYl ' LLJ =
Bi a VYf'' Gh] NCž' l B979' FY[i 'Uh]cb' bc'' % &ž' fYXi V]cb' Yj Y' \$ž' WUgg' =cf'
=cfž' h\Y' : 58' Y'' J'' gYU' f] Yfg]cb' : YVfi Ufm' &\$%) 'cf' bYk YfŁz' J 9FH' :]hYf' @]gh'
f] Yfg]cb' GYdhYa VYf' &\$%* ' cf' bYk YfŁ' cf' 65: l ' :]hYf' @]ghŁ'' H\Y' gUa Y'
ghU_Y\c'XYf' fYei YghYX' U' WUf]Z]W]h]cb' cZ h\Y' hYl h']b' h\Y' fUh]cbU' Y']b' h\Y'
VtbbYl h' cZ 9l ' Y[]g' Uh]cb' UbX' WUgg]Z]W]h]cb' cZ Vta dUVh' gk YYdYfg''

h' k Ug' gi [[YghYX' h\Uh' hc' VY' dfUVW]W' m' i gYz' ž' h\Y' W]hYf]cb' g\ci 'X']gh'
a UVW]bYfm' d' fcXi W]g' k \]V\ ' a i gh' cdYfUH' k]h\ nYfc' Yl \Ui gh' Ya]gg]cbg' Ug'
h\YfY' k]'' d' fcVUV' m' VY' gca Y' gdYVU' Yei]da Ybh' k \ YfY' h\YfY']g' bc' Y' YVW]W'
a UVW]bYfm' Uj U] UV' Y' cb' h\Y' a Uf_Yh' h' k Ug' U' gc' gi [[YghYX' Vm' h\Y' gUa Y'
ghU_Y\c'XYf' h\Uh' k \ Yb' di fVUg]b[' bch' gdYVZ]W]d' fcXi W]g' Vi h' fUH' Yf' XY']j Yfm'

h\Y' gUa Y' h]a Y' ZfUa Y' f!&! (' mYUfgk' h\Uh']g' hmd]W' Zcf' U' gYfj]W' VebhfUWz
k \]W' WYUHYg' Ub' cj Yf'Ud'' H\YfYZcfY' dfcdcg]b[' U' VebhfUW' dYfZcfa UbW'
WUi gY' fYei Ygh]b['%\$\$i ' a UWX]bYfmk]h\ nYfc' Yl \Ui gh'Ya]gg]cbg' Xi f]b[' &! ('
mYUfg' k ci 'X' bch' VY' i gYZ' ' Xi Y' hc' h\Y' cj Yf'Ud' VYhk YYb' VebhfUW' Xi fUh]cb'
UbX' h\Y' YbX' cZ h\Y' i gYZ' ']ZY' cZ h\Y' a UWX]bYfm'

: cf' h\Y' a UWX]bYg' fBFAA gk' hmd]W' mi gYX' Zcf' [UfXYb]b[' UW]j]h]Yg' f\UbX!
\Y'X' a UWX]bYg' Z]hYX' k]h\ G= fgdUf_!] [b]h]cbE' Yb[]bYg' \Uj]b[' U' fYZfYbW'
dck Yf' h\Uh']g' 'Ygg' h\Ub' %- ' _K' h\Uh' UfY' Yl W' gj Y'm Zcf' i gY']b' \UbX! \Y'X'
a UWX]bYfmk' h\Y' a cgh'g] [b]Z]Wbh U]f' dc'' i hUbh'Ya]gg]cbg' UfY' h\Y' fY'YUgY' cZ
7Cz' <7z' BCI '' A cfYcj Yf' k]h\ hYWX bc'c[m' Yj c' i h]cb' cZ h\YgY' a UWX]bYg'
]bX]W]h]b[' U' WYUf' hYbX' hck UfXg' VUthYfm Y'YVW]V' U' W]hYf]cb' dfcdcgU' Zcf'
h\Y' ; < ; 'Ya]gg]cbg' Zcf' U' BFAA]bW' X]b[' h\Y' hmd]W' [UfXYb]b[' a UWX]bYfm
dfcXi W]g' k ci 'X' VY' fYXi bXUbH'

5' gi [[Ygh]cb' k Ug' a UXY' h\Uh' W]hYf]cb' HG& f! < ; ' Ya]gg]cbg' cZ Vta dUW'
gk YYdYfg' UbX' gdfYUXYfgk' g\ci 'X' VY' Udd']WUV'Y' hc' U' a cV]Y' a UWX]bYg''
H\YfY']g' U' UW' cZ]bZcfa Uh]cb' UbX' XUHU' hc' Zcfa i 'UhY' W]hYf]cb' VUgYX' cb'
YbYf[m'Vebgi a dh]cb' cf' 7C& 'Ya]gg]cbg' dYfZcfa UbW' Zcf' Vta dUW' gk YYdYfg'
UbX' gdfYUXYfg'' 5b' UbU'mg]g' cZ h\Y' Uj U]UV'Y' hYWX bc'c[m' cdh]cbg' hc' gYh'
W]hYf]U' Zcf' Vta dUW' gk YYdYfg' UbX' gdfYUXYfg']bX]W]hYX' h\Uh' Z' Y' W''
hYWX bc'c[nZ' U'h\ci [\ ' dcgg]V'YZ' XYdYbXg' Zcf' Yl Ua d'Y' cb' h\Y' g]hY' cZ h\Y'
gk YYdYf' UbX']g' bch' fYU' m' ZYUg]V'Y' Zcf' ga U' Yf' Vta dUW' gk YYdYfg'' < mVf]X'
Xf]j Yg' UbX' d' i [!]b' \mVf]Xg' UfY' gYYb' Ug' Ub']b]hYf]a ' gc' i h]cbz' UbX' h\YfY' UfY'
hYWX bc'c[]Yg' gi W' Ug' 'cUX! gYbg]b[! \mXfUi ']W' gmghYa g' fZcf' gk YYdYfg' UbX'
gdfYUXYfgk' k \]W' YbUV'Y' h\Y' Zck! W]dUW]m' cZ h\Y' di a d' hc' VY' fY[i ' UhYX'
h\fc i [\ ' h\Y' 'cUX! gYbg]b[! dfYggi fY' fZcf' hfi W' a ci bhYX' gk YYdYfg' fgYY'
gYV]cb' * "%%&#z' Vi h' VUthYfm Y'YVW]W] Y\]WYg' gYYa ' hc' VY' h\Y' hYWX bc'c[m' Zcf'
h\Y' Z' hi fY'' H\YfY']g' gca Y' Yj]XYbW' h\Uh' h\YgY' UfY' Yj Yb' bck' Vta dYh]b['
k]h\ gk YYdYfg' Yei]ddYX' k]h\ Zcgg] ' Z' Y' Yb[]bYg' Vta d'm]b[' k]h\ j Uf]ci g' 9l '
Ya]gg]cb' ']a]hg' f! F C ' * z' 9l F C ' J =cf' GHU [Y' J E''

H\YgY']bg] [\hg' Vti 'X' VY' i gYX' hc' dfcdcgY#Zcfa i 'UhY' U' W]hYf]cb' VUgYX' cb' h\Y'
'Y [U' VUW' [fci bX' UbX' gh]di 'Uh]b[' fYei]fYa Ybhgz' k \]W' XYa UbX' 'ck Yf' fcf'
Yj Yb' nYfcE' U]f' dc'' i h]cb' Ya]gg]cbg'' < ck Yj Yfz' h\]g' cdh]cb']g' U' fYUXm
UXXfYggYX' h\fc i [\ ' h\Y' W]hYf]cb' cb' 9b[]bY' 9l \Ui gh' 9a]gg]cbg' fHG%&''
H\YfYZcfY' h\Y' W]hYf]cb' cb' h\Y' ; < ; 'Ya]gg]cbg' cZ Vta dUW' gk YYdYfg' UbX'
gdfYUXYfg']g' k]h\ XfUk b''

6UgYX' cb' h\Y' WUgg]Z]W]h]cb' cZ gdfYUXYfg' Vm h\Y' Yl]gh]b[' 'Y []g'Uh]cbz' h\Y'
W]hYf]cb' cb' h\Y' X]ghf]Vi h]cb' dYfZcfa UbW' cZ gdfYUXYfg']g' k]h\ XfUk b' Zfca '
h\Y' j Y\]WYg' gYV]cb' fbgdfYUXYfg' UfY' bch' Vebg]XYfYX' hc' VY' j Y\]WYgk'' =h']g'
bck' ZYUhi fYX']b' h\Y' a UWX]bYfmYV]cb' cZ h\Y' fYdcfh''

Bc' W]hYf]U' dfcdcgU' k Ug' a UXY' Zcf' h\Y' YZ]WYbWm' cZ dUfh]W' UhY' a UthYf'
Vt' YV]cb' Zcf' Vta dUW' gk YYdYfg' Ug' a cV]Y' a UWX]bYg']b' h\Y' gYVebX'
hYWX b]W' fYdcfh'') "%*'' E' 7f]hYf]cb' k]h\ XfUk b' z' fYZfYg' hc' h\Y' k]h\ XfUk U' cZ
h\Y' bc]gY' Ya]gg]cb' W]hYf]U']b' h\Y' gYVebX' hYWX b]W' fYdcfh'' H\]g']g' bck'
WUf]Z]YX''

Notes:

**Engines complying with a prior emission stage to Stage V, in accordance with the exemptions and transitional provisions set out in Article 10(7) of Directive 97/68/EC, Articles 34(7), 34(8) or 58(5) to 58(11) of Regulation (EU) 2016/1628, and Articles 11(4) and 14 of Commission Delegated Regulation (EU) 2015/96, or Article 13(3) to 13(6) of Commission Delegated Regulation (EU) 2018/985, are allowed to be installed, if they are retrofitted with DPF system certified according one of the following certificates and if they have a gravimetric separation efficiency of at least 90%:*

- Anlage XXVII Nummer 3 StVZO
- UNECE Regulation R 132, reduction stage 01, Class I or II
- FAD e.V. Siegel (Status February 2015 or newer)
- VERT filter list (Status September 2016 or newer)
- BAFU filter list

) "%"; <; Ya]gg]cbg`cZ`Vta dUVhgk YYdYfg`E`W]hYf]cb`
k]h XfUk b`

FYZf`hc`) "%&"`cb` gi a a Ufm`cZ` Vta a Ybhg` Zfca` ghU`Y\c`XYfg` Zc`ck]b[`
5<K ; &"`

) "%"(K UHf`Vtbg`i a dh]cb`fZcf`Vta dUVhgk YYdYfg`i g]b[`
k UHf`Zcf`Xi ghgi ddfYgg]cbk`

FYZf`hc`GYW]cb`* "%" "`

) "%) 8]ghf]Vi h]cb`dYfZcfa UbW`cZ`gdfYUXYfg`

F UH]cbUY`

GdfYUXYfg` Udd`m`XY!]V]b[` UbX` h`Uk]b[` U[Ybhg` gi V\` Ug` gU`h`cf` Vf]bY` cb`
hfUZZ]WfcUXg`hc` Ybgi fY`h`Y` gUZYhm`cZ`fcUX` hfUZZ]W` H\Y`XY!]V]b[` UbX` h`Uk]b[`
U[Ybhg` UfY` fY`YUgYX`]b` h`Y` Ybj]fcb`a` Ybh`UbX` a` Um` \Uj` Y` bY[Uh]j` Y` YZZYVhg`
CbY`k` Um`hc`a`]b]a`]gY`h`]g`]a` dUVh`]g` fYXi` V]b[` h`Y` i` gY` cZ` h`Y` gY` U[Ybhg` hc` h`Y`
a`]b]a` i` a` bYW`ggUfm`` H\`]g` W]b` VY` UWX`]j` YX` Vm`cdYfUh]b[` h`Y` gdfYUXYf`]b` U`
a` UbbYf` h`U`h` UWX`]j` Yg` U` \ca` c[YbYci` g` X]ghf]Vi` h]cb` cZ` gdfYUX]b[` a` UHf]U`
k]h]b` h`Y` gYh` gdfYUX]b[` XcgU[Yz` k]Xh` UbX` gdfYUX]b[` dU`h`Yfb` hfUW`
f]l` b]hYXz` &\$%+L`"

H\Y` a` Ubi` ZUW`i` fYfg` cZ` gdfYUX]b[` a` UWX`]bYg` UggcV]Uh]cb` 9l` b]hYX` A` i` b]W]dU`
9ei`]da` Ybh` UbX` h`Y` 9b[]bYYf]b[` 7YbhYf` 6m[\c`a`]b` 8Yba` Uf` \Uj` Y`
XYj` Y`cdYX` Ub` U[fYYX` h`Ygh` Zcf` gdfYUX]b[` ei` U`]m`f]l` b]hYXz` &\$%+L`" H\Y` gYh`
i` d`cZ`h`]g` h`Ygh` a` Yh`cX`]g` Ub` Yb` \UbW`X` a` cXY` cZ` h`Y` UddfcUWX` XYgW]VYX`]b`
h`Y` 9i` fcdYUb` h`Y`W`b]W]`gdYW]Z]W]h]cb` 79B`#HG`%)` -` +!` &"`

7f]hYf]U`dfcdcgU`Zcf`gdfYUXYfg`

7cfY`W]hYf]U`	7ca`dfY`Ybg]j`Y`W]hYf]U`
HYW`b]W`GdYV]Z]W]h]cb`	
<p>HG&`"8]ghf]Vi`h]cb`dYfZcfa`UbW`</p> <p>H\Y`gdfYUXYf`a`cXY`a`i`gh`Vta`d`mk`]h`h\Y`fYei`]fYa`Ybhg`cb`X]ghf]Vi`h]cb`dYfZcfa`UbW`gYh`Vm9B`%)`-`+`!`&`z`k`\\]W`Vta`df]gYg`h\Y`Zc`ck`]b[`dUfUa`YhYfg`</p> <ul style="list-style-type: none"> • XcgU[`Y` • gdfYUXYf`ghUfh` • `UhYfU`X]ghf]Vi`h]cb` <p>J`Yf]Z]W]h]cb.`</p> <p>H\Y`hYbXYfYf`a`i`gh`dfYgYbh`h\Y`hYgh`fYdcfh`UWV`fX]b[`hc`h\Y`ghUbXUfX`9B`%)`-`+`!`&`z`k`\\]W`h\Uh`h\Y`hYgh`fYg`hg`cb.`</p> <ul style="list-style-type: none"> • 8cgU[`Y`hYgh` • GdfYUXYf`ghUfh` • 8nbUa`]W]hYgh`UhYfU`X]ghf]Vi`h]cb` <p>UfY`h\Uh`h\Y`gdfYUXYf`]g`ei`U`Z]YX`</p> <p>H\Y`hYgh`a`i`gh`VY`W]ff]YX`ci`h`VmUb`]bXYdYbXYbh`UVcfUhc`fm`</p>	

)`"%`*` 6UhhYfmei`U`]hmi`

F`U]h]cb`U`Y`

;`j`Yb`h\Y`]bWYUg]b[`a`Uf`_Yh`g`UfYg`cZ`Y`YWf]W]V`VUhhYfmi`cdYfUhYXz`fcVch]W`dfcXi`Vhg`!`fcVch]W`a`ck`Yfg`[`U]bYX`fUd]X`mi`]b`dcdi`Uf]hmi`Ug`h\Y]f`hc`hU`a`Uf`_Yh`Zcf`9i`fcdY`k`Ug`%`+`\$`a`j`]cb`Xc`Ufg`]b`&`\$`%`&`z`k`]h`U`\$`i`[`fck`h`fUhY`dYf`mYUf`f9i`7ca`a`]gg]cb`E`8;`9BHF`z`&`\$`%(`E`!`h\Y`dchYbh]U`]a`dUW]g`z`k`\\]W`Vta`X`Uf]gY`Zfca`h\Y`XYd`cma`Ybh`cZ`VUhhYf]Yg`Ug`k`Y`Ug`h\Y]f`cdYfUh]cbU`]Z]h]a`Yz`bYXX`hc`VY`UXXfYggYX`H\Y`fYgi`hg`cZ`Ybj`]fcb`a`YbhU`UggYgga`Ybhg`cZ`X]ZZYfYbh`VUhhYfmi`hmdYg`Zcf`ghU]h]cbUfmi`Udd`]W]h]cbg`]bX]W]hYg`h\Uh`VUhhYfmi`hYVW`bc`c[`]Yg`i`g]b[`YUX!`UW]Xz`b]W]Y`!`W]Xa`]i`a`UbX`b]W]Y`!`a`YHU`\\Uj`Y`U`\\[`\\Yf`Ybj`]fcb`a`YbhU`]a`dUW]h`h\Ub`b]W]Y`W`cf]XY`VUhhYf]Yg`fk`]fYa`Uh`z`A`"z`YhU`"z`&`\$`%`Ez`fA`Uh`Ymgz`>`YhU`"z`&`\$`\$`-`E`

H\Y`9i`6UhhYf]Yg`8]fYV]h]j`Y`&`\$`\$`#`*`*`#97`cZ`GYdhYa`VYf`*`z`&`\$`\$`dfc`\\]V]hYX`h\Y`i`gY`cZ`W]Xa`]i`a`]b`Vt`fX`Ygg`dck`Yf`hcc`g`i`bh`]`%`8YW`a`VYf`&`\$`%`*`UZhYf`k`\\]W`]hg`i`gY`]g`dfc`\\]V]hYX`"5`g]a`]Uf`dfc`\\]V]h]cb`U`gc`Udd`]Yg`hc`a`YfW`fm]b`U`VUhhYf]Yg`

DGA`a`UW]b]Yfmi`[`YbYfU`mi`i`gY`hk`c`a`U]b`hmdYg`cZ`gYVt`bXUfmi`f]Y`fYVW`Uf`[`YUV`YE`VUhhYfmi`hmdYg`Uj`U]UV`Y`]b`h\Y`a`Uf`_Yh`z`B]!`A`<`UbX`@]`=cb`B]7X`VUhhYf]Yg`UfY`VY]b[`d`UgYX`ci`h`@]cb`VUhhYf]Yg`\\Uj`Y`h\Y`\\[`\\Ygh`YbYf`[`m`XYbg]fm`cZ`U`VUhhYfmi`hmdYg`fH\Y`6UhhYfmi`l`b]j`Yfg]h`mz`&`\$`%`E`"8i`Y`hc`hYVW`bc`c[`m`Yj`c`i`h]cb`h\YfY`]g`U`hfYbX`hc`k`UfX`h\Y`XYd`cma`Ybh`cZ`h\YgY`dck`Yfz`z`\\[`\\Yf!`Vt`grz`UbX`][`\\hYf!`k`Y][`h`@]cb`VUhhYf]Yg`";`cVU`VUhhYfmi`

Včbgi a dh]cb`]g` dfc`YVWYX` hc`]bWYUgY`]b` h`Y` Vča`]b[` mYUfgž` UbX` @!]cb`]g` g\ck]b[` h`Y``Uf[Ygh`a` Uf_Yh[fck`h` cZU` h`Y`Uj` U]UV`Y` VUthYfm`hYVWbc`c[]Yg` fD]`chž` 7ž` &\$%*` Ł` 5g` gi`]hUV`Y` WXa`]i` a` !ZFY` gi` Vgh]h` hYg` Zcf` i` gY`]b` VčfX`Ygg` dck` Yf` hcc`g` Udd`]WWh]cbg` UfY` Uj` U]UV`Y` cb` h`Y` a` Uf_Yhž` bUa` Y`m`b]W_Y`!` a` YhU` \mXf]XY` UbX` ``]h`]i` a` !]cb` VUthYfm`hYVWbc`c[]Yg` fD]`chž` 7ž` &\$%*` Ł` U` W]hYf]cb` cb` VUthYfm`k` Ug`]bhf`c`Xi` VVX`]b` HF`%`\$`"

8i` f]b[` h`Y` 5<K` ;` %`a` YYh]b[ž` U` ghU_Y\c`XYf` bchYX` h`Uh` [UfXYb` UbX` ci` hXccf` dck` Yf` a` Ubi` ZUVh` fYfg` UfY` XYdYbXYbh` cb` h`Y`f` gi` dd`]Yfg` Zcf` h`Y` Uj` U]UV`]hmi` cZ` VUthYf]Yg`" H`Y` gUa` Y` ghU_Y\c`XYf` U`gc` Yl` dfYggYX` VčbWfb` h`Uh` h`Y` 9B` *`%` *`\$` ghU`b`X`UfX`]g` hcc` [YbYfU` UbX` bch`gi`]hUV`Y` Zcf` gYj` YfU` Udd`]WWh]cbg`]b` h`Y` [UfXYb` a` UVX`]bYfm` gYVčfž` UbX` fYei` YghYX` h`Uh` h`Y` 9l` ;` DD` W]hYf]U` g\ci` X` U`gc`]bW` XY` h`Y` dccg]V`]hmi` cZ` h`Y` Uddfcdf]UhY` hYgh]b[` Vmi` h`Y` a` Ubi` ZUVh` fYf`]b` UXX]h]cb` hc` h`Y` 9B` *`%` *`\$` ghU`b`X`UfX`"

H`Y` gUa` Y` ghU_Y\c`XYf` k` Ug` U`gc` cZ` h`Y` cd]b]cb` h`Uh` h`Y` W]hYf]U` cb` VUthYfm` \YUj` mi` a` YhU` VčbhYbh`k`]h` h`Y` gi` [[YghYX` Uk` UfX` W]hYf]cb` cb` VUthYfm` \YUj` mi` a` YhU` VčbhYbh` f`a` YfW` fmž` YUX` UbX` WXa`]i` a` Ł`]a`]hg` k` \]VX` UfY` a` i` VX` `ck` Yf` h`Ub` h`Y` W` ffYbh` Udd`]WV`Y` Y[]g`Uh]cbž` bUa` Y`m`h`Y` 6UthYf]Yg` 8]fYVW]j` Y` UbX` h`Y` F957<` FY[i` Uh]cb`" `b` UXX]h]cbž` h`Y` dfcdcgYX` `ja`]hgž` bchUV`mi` Zcf` a` YfW` fmž` UfY` j` Yfm`ck` UbX` Yj` Yb` Wčgy` hc` XYhYVW]cb` `]a`]hg`"

`b` HF`&`\$ž` Zfca` Ub` 9l` ;` DD` dYfgdYVW]j` Yž` Ug` di` V`]W` gdUW` a` U]bhYbUbW` Yei`]da` Ybh` UbX` a` UVX`]bYfm` UfY` dfcXi` VVX` Vm`Vča` dUb]Yg` k`]h` Ub` cV`][Uh]cb` hc` Vča` d`mi`hc` fY[]cbU`ei` U`]hmi`UbX` Y[]g`Uh]cbgž` h`Y` j` Yf]Z]WWh]cb` fYei`]fYa` YbHg` \Uj` Y` VYYb` fYhU]bYX` Vi` hi` i` dXUhYX` hc` fYZYVh` Udd`]WV`Y` 9i` fcdYUb` VUthYfm` hYgh]b[` ghU`b`X`UfXg` k`]h` U` g`][\h` a` cX]Z]WWh]cb` Xi` Y` hc` h`Y` UXX]h]cb` cZ` "Yei`]j` U`Ybh`ghU`b`X`UfXg` VhYX`]b` f9i` fcdYUb` 7ca` a`]gg]cb` Ě` 8;` 9BJ` "ž`&\$\$,` Ł`"

`h`]g` UW`bck` YX[YX` h`Uh` h`Y` \YUj` mi` a` YhU` g` VčbhYbh` `]a`]hg` dfcdcgYX`]b` HF` "%`\$` UfY` `ck` Yf` h`Ub` h`Y` Yj` Y`g` gh]di` UhYX`]b` h`Y` Yl`]gh]b[` fY[i` Uh]cb`" <ck` Yj` Yfž` h`]g`]g`]b_YX` hc` h`Y` \][\` ei` U`]hmi` fFYd`UVW` a` Ybh` fUhYž` dck` Yf` XYbg]mž` UbX` a`]b]a` U` Ybj`]fcb`a` YbhU`]ggi` YgŁ` Ubh]WdUhYX` cZ` fYVW` Uf[YUV`Y` VUthYf]Yg` h`Uh` h`Y` 9l` ;` DD` W]hYf]U` gYY`_` hc` dfca` chY`" 7i` ffYbh`a` Uf_Yh` Z[i` fYg`]bX]WWhY` h`Uh` @! `cb` VUthYf]Yg` UfY` g\ck`]b[` h`Y``Uf[Ygh`a` Uf_Yh[fck`h` cZU` h`Y`Uj` U]UV`Y` VUthYfm`hYVWbc`c[]Yg` fD]`chž` 7ž` &\$%*` Ł` H`]g` g\ci` X` fYgi` `h`]b` `ck` Yf` Ua` ci` bhg` cZ` h`Y`gY` \YUj` mi` a` YhU` g`]b` fYVW` Uf[YUV`Y` VUthYf]Yg`" A`cfYcj` Yfž` h`Y` fYei`]fYa` YbHg` UfY` U][bYX` k`]h` g]a`]Uf` W]hYf]U` Uj` U]UV`Y`]b` h`c` HmdY` = 9Vč`UVY`g` fBcfX]W9Vč`UVY`]b[` UbX` ;` Yfa` Ub` 6`i` Y` 5b[Y`Ł`" 5`h`ci` [\`gdYVW]U` W]fY` a`][\h` VY` bYYXYX` hc` XYhYVh` a` YfW` fm` VčbhYbh` Yj` Y`g` Wčgy` hc` h`Y` XYhYVW]cb` `]a`]hg` cZ` O`\$`"%` dda` ž` h`Y` hYVWbc`c[m` Zcf` VčbXi` W]b[` h`]g` UbU`mg]g` UddYUfg` hc` VY` Uj` U]UV`Y`" H`]g` k` Ug` gi` ddcfHYX` Vmi` ghU_Y\c`XYfg` k` \c` ghU`hYX` h`Uh` a` Ubi` ZUVh` fYfg` i` gY` VUthYf]Yg` Zfca` a` U]b` VUthYfm` a` Ubi` ZUVh` fYfg` fUg` VUthYf]Yg` UfY` gY`Xca` Vi`]h]b!` \ci` gYŁž` UbX` VUthYfm` a` Ubi` ZUVh` fYfg` g\ci` X` VY` UV`Y` hc` dfcj` XY` UVVYX]hYX` hYgh]b[` UVcfUhcf]Yg` Wf]h]Z]WWhYg` Zc`ck`]b[` ghU`b`X`UfXg` Zfca` VUthYfm]bXi` ghfm`"

H`Y`fY`ZcfYž` bc` W`Ub[Y` \Ug` VYYb` a` UXY` hc` h`Y` Uk` UfX` W]hYf]cb` cb` \YUj` mi` a` YhU` VčbhYbh`"

7f]hYf]cb`Dfc dcgU`

<p>7cfY`W]hYf]U`</p>	<p>7ca dfY\`Ybg]j`Y`W]hYf]U`</p>
<p>HYW`b]W`GdYV]Z]W]h]cb`</p>	
<p>HG`"6UHfmiFYW`Uf[`YUV]`]hmiUbX`ei`U`]hmi <i>(Same formulation for Core and Comprehensive)</i></p> <p>H\Y`VUHfmi`a`i`gh`a`YYh`h\Y`dYfZcfa`UbW`fYei`]fYa`Ybhg`gdYV]Z]YX`VY`ck`.</p> <p>%&`9B`*`%-`)%`&`E`B]W]Y`!`A`YHJ`<`nXf]XY`6UHf]Yg`</p> <p>&E`9B`*`%-`*`\$`E`@]h]j`i`a`=`cb`6UHf]Yg`</p> <p>J`Yf]Z]W]h]cb.`</p> <p>HYbXYfYfg`a`i`gh`dfcj`]XY`U`hYgh`fYdcfh`j`Yf]Z]h]b[`VUHfmi`ei`U`]hmi`UbX`dYfZcfa`UbW`hc`9B`*`%-`)%`&`Zcf`B]A`<`cf`hc`9B`*`%-`*`\$`Zcf`]h]j`i`a`]cb`VUHf]Yg`"HYgh`fYdcfh`j`Yf]Z]h]b[`VUHfmi`ei`U`]hmi`UbX`dYfZcfa`UbW`hc`Yei`]j`U`Ybh`gh]UbXUfXg`k`]"VY`XYYa`YX`hc`Vta`d`m`H\Y`hYgh`fYdcfh`a`i`gh`VY`Zca`Ub`]bXYdYbXYbh`hYgh]b[`UVcfUhcfm`h`Uh`Z`Z]g`h`Y`fYei`]fYa`Ybhg`Zcf`h\Y`Vta`dYhYbW`cZ`hYgh]b[`UbX`W]`VfU]cb`UVcfUhc]Yg`UWVt`fX]b[`hc`9B`=GC`#`=97`%`+`\$`&)"`</p>	
<p>5k`UfX`7f]hYf]U`</p>	
<p>57&`"6UHfmi\`YUj`mia`YHJ`VtbhYbh` <i>(Same formulation for Core and Comprehensive)</i></p> <p>Dc]bhg`k`]"VY`Uk`UfXYX`Zcf`h\Y`dfcj`]g]cb`cZ`VUHfmi`dck`YfYX`a`UW]bYfmi`Ya`d`cm]b[`fYVW`Uf[`YUV`Y`VUHf]Yg`k`]h`ck`Yf`\YUj`mia`YHJ`VtbW`bhfU]cb`h`Ub`h`cgY`gdYV]Z]YX`VY`ck`.</p> <p>A`YfW`fmiO`\$`"%`dda`</p> <p>7UXa`]i`a`O`%`\$`dda`</p> <p>@YUX`O`)`dda`</p> <p>J`Yf]Z]W]h]cb.`</p> <p>GY`UVcj`Y`HG`"</p>	

)`"%`+` **Bc]gY`9a`]gg]cb`!`7f]hYf]cb`k`]h`XfUk`b`**

F`U]cb`U`Y`

Bc]gY`dc`i`h]cb`\`Ug`VYYb`]XYbh]Z]YX`]b`h\Y`dfY`]a`]bUfmi`fYdcfh`Ug`cbY`cZ`h\Y`g]b]Z]W]b]h`Ybj`]fcb`a`YbhU`]a`dUW]g`Zca`h\Y`i`gY`cZ`a`UW]bYfmi`Zcf`h\Y`a`U]bhYbUbW`cZ`di`V`]W]gdUW]g`"b`9i`fcdYz`a`UW]bYfmi`bc]gY`fY[`i`U]cb`]g`W]ff]YX`ci`h`h`fci`[\`h\Y`ci`hXccf`Yei`]da`Ybh`X]fYW]j`Y`&\$\$\$`#`%`(`#9i`k`\]W]gYhg`ci`h`bc]gY`fYei`]fYa`Ybhg`Zcf`Yei`]da`Ybh`i`gYX`ci`hXccf`]bX]W]hYX`h`fci`[\`h\Y`gci`bX`dck`Yf`Yj`Y`k`\]W]`a`i`gh`VY`XYWUfYX`"

H\Y' A UvW]bYfm 8]fYVh]j Y' &\$\$*#(a' fY[i`UhYg' h\Y' bc]gY' `Yj Y' Zcf' h\Y' cdYfUhc'f" H\]g' a UbXUhYg' U' XYhYfa]bUh]cb' UbX' XYWUfUh]cb' cZ h\Y' Ya]gg]cb' gci bX' dfYggi fY' `Yj Y' <ck Yj Yfz' h\]g' XYWUfUh]cb']g' cb`m fYei]fYX']Z h\Y' Ya]gg]cb' gci bX' dfYggi fY' `Yj Y' YI WYXg' , \$ X6f5E" 5` hmdYg' cZ a UvW]bYfm Vtj YfYX' Vm h\Y' ci hXccf' Yei]da Ybh' X]fYVh]j Y' a i gh' VY' `UVY`YX' k]h\` h\Y' [i UfUbhYX' gci bX' dck Yf' `Yj Y' VYZcfY' h\YmVWb' VY' gc' X']b' 9i fcdY'`"

8Yj Y' cda YbHg']b' VUhYfm hYVW bc`c []Yg' gi V\ Ug']a dfcj YX' dYfZcfa UbW' UbX' h\Y']bWYUg]b[`ck Yf' df]Wg' cZ fYVW Uf [YUV'Y' VUhYfm dUW_g' \Uj Y' YbUV`YX' a Ubi ZUVh' fYfg' hc' XYj Y'cd' U' fUb[Y' cZ Vtfx`Ygg' a UvW]bYfm fHYVW bUj]c' F YgYUfVWz' &\$%* E' k \]W' UfY' WUdUV'Y' cZ cdYfUh]b[`k]h\` j Yfm `ck' bc]gY' Ya]gg]cbg' UbX' nYfc' YI \Ui gh' Ya]gg]cbg'" 5g' h\Ym UfY' Y'YVWf]WU' m dck YfYXz' h\YgY' dfcXi Vtg' Xc' bch' \Uj Y' UbmX]fYVh' Ya]gg]cbg' UbX' UfY' ei]YhYf' h\Ub' h\Y' Vtj Ybh]cbU' a UvW]bYg' fi bb]b[`k]h\` X]YgY' cf' dYhfc'` dck YfYX' Yb[]bYg'" 9'YVWf]W' Uk b' a ck Yfg' [YbYfUhY' fci [\m' U' hYbh' cZ h\Y' bc]gY' `Yj Y' cZ [Ugc']bY' dck YfYX' a ck Yfgz' Uh' , (!, , `XVf5Ez' UbX' fcVch]Wa ck Yfg' dfcXi W' `Ygg'bc]gY' Ya]gg]cb' f9i `7ca a]gg]cb' E' 8; `9BFH z' &\$%(E' fHUV'Y' %E'"

H\]g' fYdfYgYbHg' U' dchYbh]U' a Uf_Yh'gYVWcf' k \YfY' [fck h\` WU' VY' YI dYVWYX']b' h\Y' Z' hi fY'" =Z h\]g' hfYbX' Vtj]bi Ygz']h']g' Ubh]WdUhYX' h\Uh' h\Ym Vtj' X' fYd`UW' U' WfHJ]b' dYfVWbHJ [Y' cZ]bhYfbU' Vta Vi gh]cb' Yb[]bY' Yei]da Ybhz' U'h' ci [\]h']g' W' ffYbh'm X]ZZ]W' `h' hc' dfYX]Vh' k \Uh' g' UfY' cZ h\Y' a Uf_Yh' h\]g' Vtj' X' VY' Ug' h\YfY']g' U' `UW' cZ]bZcfa Uh]cb' Zcf' h\]g' gYVWcf'"

H\Y' Y'YVWf]WVWUhY [cfmz' k \]W' Vtj Yfg' VtfxYX' UbX' VUhYfm dck YfYX' dfcXi Vtgz']g' g\ck]b[`h\Y' ghfc] Ygh' [fck h\` fUhY' Xi Y' hc' h\Y']bhfcXi Vh]cb' cZ bYk']bbc] Uh]cb' UbX' hYVW bc`c [m' DUfh]W' Uf'nz' [fck h\`]b' Y'YVWf]W dfcXi Vtg']g' VY]b[`Xf]j Yb' Vm VUhYfm dck YfYX' dfcXi Vtg' ffcVch]W' Uk b' a ck Yfg' UbX' \UbX\Y'X' dfcXi Vtg' E' gi V\ Ug' hf]a a Yfgz' \YX [Y' W' hYfg' UbX' V\U]bgUk g' fki gej UfbU' ; fci dz' &\$% E' 5'h' ci [\ h\Y']b]h]U' Vtj]hg' cZ h\YgY' dfcXi Vtg' UfY' \ [\z' Ug' h\Y]f' dYfZcfa UbW']a dfcj Ygz' XYa UbX' Zcf' h\Ya']g' U' gc' dfc'YVWYX' hc']bWYUgY'"

HUV'Y' %" `7ca dUf]gcb' cZ @Uk ba ck Yfgz' fk k k "hcdhYb"VWz' &\$% E'

HmdY`	6UhYfm' hmdY'	7\Uf []b[`h]a Y' fa]bgE'	Bc]gY' `Yj Y' fX6E'	7cgh' f9i F E'
FcVch]W	@' E' =cbz' @: YDC (	* \$! % % \$	) %d - (- - - ' ! (& \$ \$
6UhYfmdck YfYX'	@' E' =cb'	) ) E' % \$	+, E' - (((- ' ! - *)
9'YVWf]WVWU'Y' fVtfxYXE'	.	.	++ ' ! - *	() \$ ' ! - - -

H\Y' W]hYf]cb' cb' bc]gY' Ya]gg]cb' dfcdcgYX']b' HF' %"\$' Uh' h\Y' Vta dfY\Ybg]j Y' `Yj Y' k Ug' VUgYX' cb' h\Y' fYj]Yk' cZ bc]gY' `]a]hg' Uj U]UV'Y' Zcf' h\Y' fY'Yj Ubh' dfcXi Vtg']b' HmdY' = 9Vt' UVY' g' ft' Yfa Ub' 6' i Y' 5b [Y' UbX' BcfX]W9Vt' UVY' E' UbX' h\Y']bWYUg]b[`m dcg]h]j Y' XYj Y' cda YbHg' Ybj]gU [YX']b' h\Y' Y'YVWf]Wdck YfYX'

a UWX]bYfmi dfcXi Vh' gYVWcf' Ug' Yj]XYbWX' Vm'bc]gY' Ya]gg]cb' `]a]hg' Uj U]UV'Y' Zfca' h\Y'k YVg]hYg'cZ'gYj YfU'`a Ubi ZUVh' fYfg''''

A cgh' ghU_Y\c'XYfg' U[fYYX' k]h\ h\Y']a dcfhUbw' cZ' h\Y' W]hYf]cbz' UbX' gi [[YghYX' h\Uh']h' a][\ h' VY' g]a d'Yf' UXXfYgg' YbYf[m' i gYz' bc]gY' UbX' U]f' dc`i h]cb' hc[Yh\Yf' Vm'g]a d'm']bWYUg]b[' h\Y' dYfW'bhU[Y' cZ' YZ]WYbh' Y'YVWf]W' a UWX]bYg' VY]b[' i gYX'' Gi WX' Ub' UddfcUWX' k ci 'X' g]a d']Zm'h\Y' ; DD' UddfcUWX' cb' h\YgY']ggi Yg' UbX' k ci 'X' VY' VYhYf' i bXYfg'hcX' Vch\ ' Vm' dfcW' fYfg' UbX' hYbXYfYfg'' 5' ghU_Y\c'XYf' cV'YVWX' hc' h\Y' d'fcdcgYX' W]hYf]cb' k]h\ Uf[i a Ybhg'h\Uh' h\Y' a Uf_Y'h'g\UfY' cZ' VUhYfm'Y'YVWf]Wdck YfYX' a UWX]bYfmi]g' gh]'' ga U'z' h\Y' bc]gY' Ya]gg]cbg' `]a]hg' UfY' hc' ghf]b[Ybh' fMgdYVU'm' Zcf' d'fcZ]gg]cbU' Yei]da Ybh'z' UbX' Vei 'X' VY' Vei bhYf! d'fcXi Vh]j Y' Ug']h' Vei 'X' gh]ZY' h\Y' XYj Y'cda Ybh' cZ' dck YfZ' ` Y'YVWf]W'm' Xf]j Yb' d'fcXi Vhg' hc' fYd'UW' Vta Vi gh]cb' Yb[]bY' dck YfYX' a UWX]bYg''''

H\YfY']g' Ub' cb[c]b[' Vebgi' hU]cb' cb' h\Y' Yj U' i Uh]cb' UbX']a dUW' UggYgga Ybh' cZ' h\Y' 8]fYVh]j Y' UbX' U' d'cgg]V'Y' fYj]g]cb' cZ' 8]fYVh]j Y' &\$\$#%(\ #97z' Zcf' k \]W' h\Y' C89@=5' ghi Xm']g' U' j Yfm']a dcfhUbh' Y'Ya Ybh' f9i fcdYUb' 7ca a]gg]cbz' &\$% Vt'' H\Y' C89@=5' ghi Xm' k Ug' Vta a]gg]cbYX' Vm' h\Y' 9i fcdYUb' l b]cb' hc' ghi Xm' h\Y' gi]HUV']]m' cZ' h\Y' W' ffYbh' gVtdY' UbX' `]a]h' j U' i Yg' cZ' 8]fYVh]j Y' &\$\$#%(\ #97' fY'Uh]b[' hc' bc]gY' Ya]gg]cb' Vm' Yei]da Ybh' i gYX' ci hXccfg'' 5' gcz' Ug' h\YfY']g' bch' Ybc[[\ ' Uj U]UV'Y' XUHU' hc' d'fcXi W' h\Y' bYVW'ggUfmi VYbW'a Uf_g' Zcf' XYf]j]b[' Ub' UVW'dhUV'Y' bc]gY' Ya]gg]cb' W]hYf]cbz' h\Y' cb'm' U'hYfbUh]j Y' k ci 'X' VY' hc' fYj Yfh' hc' h\Y' VYgh' Uj U]UV'Y' hYVX'bc`c[]Yg' XYa cbghfUh]b[' U' VYhYf' dYfZ'fa UbW' h\Ub' h'cgY' Vtbj Ybh]cbU'm' Uj U]UV'Y''

Cb'm' VUhYfm' Y'YVWf]W'a UWX]bYfmi WUb' UWX]Yj Y' UXX]h]cbU' bc]gY' fYXi Vh]cbg'' <ck Yj Yf' gYh]b[' Ub' Uk UfX' W]hYf]cb' hc' Vta d'Ya Ybh' U'hYVX'b]W]gdYVZ]W]h]cb' k \]W' gdYVZ]Yg' `]a]hg' VUgYX' cb' h\Y' Yl]gh]b[' Bc]gY' fY[i 'Uh]cb' k ci 'X' VY' i bUa V]h]ci g' Zfca ' ; DD' dYfgdYVh]j Y' UbX' U'gc' fYXi bXUbh' Ug' h\Y' W]hYf]cb' Zcf' Yl \Ui gh' Ya]gg]cbg']bj Uf]UV'mz' Vm' XYZUi 'h'z' gYfj Yg' h\Y' gUa Y' di fdcgY'' ;]j Yb' h\Y' Vta d'Yl]h'micZ' h\Y' g]h' Uh]cb' XYgW]VYX' UVcj Yz' h\Y' W]hYf]cb']g' k]h' XfUk bz' U'gc' Zcf' h\Y' d'fcj]g]cb' cZ'a UWX]bYfmi gYfj]W''

) '%', **A UWX]bYfmi@ Vf]Wbh'**

F Uh]cbU'Y'

@ Vf]Wbhg' UfY' gi VghUbw'g']b'f'cXi WX' VYhk YYb' gi fZUW'g']b' VtbhUWz' hc' fYXi W' Z]Vh]cb' UbX' U'gc' a]b]a]nY' h\Y' \YUh' [YbYfUhYX' k \Yb' h\Y' gi fZUW'g' a cj Y'' H\Y' i Vf]Wbhg' fY'Yj Ubh' hc' DGA' d'fcXi Vh' [fci d' UfY' h'cgY' fY'UhYX' hc' a UWX]bYfmi UbX' Yei]da Ybh' i Vf]W]h]cb' UbX' UfY' XYhU]YX']b' h\Y' DfY']a]bUfmi F Ydcfh' H\Ym]bW' XY. ''

- 9b[]bY' c]g' i gYX']b']bhYfbU' Vta Vi gh]cb' Yb[]bYg' cZ' a UWX]bYfmi' H\]g']bW' XYg' h' c' !' ghfc_Y' UbX' Zci f' E' ghfc_Y' i Vf]Wbh'c]g''''
- ; YUfg'c]g' i gYX']b' hfUbga]gg]cbg' UbX' X]ZZYfYbh]U'g']b' a UWX]bYfmi'
- <mXfUi]W Zi]Xg' i gYX']b' a UWX]bYg' UbX' Yei]da Ybh' hc' hfUbgZYf' d'fYggi fY' Zfca' cbY'dc]bh'hc' Ubch\Yf''

- 7\U]bgUk`c]g`
- ; fYUgYg`!`gYa]!gc`X`i Vf]W]bhg`i gi U`mV`bg]gh]b[`cZ`gcUd`Ya i`g]Z]YX`k]h`c]`

@ Vf]W]bhg` UfY` V`ta a cb`mi a Ubi Z]W] fYX` Z`ca` VUgY` Zi]Xg` UbX` UXX]h]j Yg` H\Y` a U]b` WUggYg` cZ`i Vf]W]bhg` UW`fX]b[`hc` h\Y` gdYV]Z]W_]bX` cZ` VUgY` c]` UfY` fYbYk UV`Y` f]a U]b`mi j Y[YHUV`Y`c]` VUgYX`i Vf]W]bhg` UbX` a]bYfU`c]g` VUgYX`i Vf]W]bhg`" =b` UXX]h]cbz` h\YfY` UfY` gmbh\Yh]W`i Vf]W]bhg` VUgYX` cb` Ufh]Z]W]U`mi a UXY` c]g` f]Y`z` W\Ya]W]`mi a cX]Z]YX` dYhfc`Yi a` cf` ch\Yf` W\Ya]W]`mi a cX]Z]YX` fUk` a UHfY]U`U` UbX` fY[YbYfUH]X`c]g` VUgYX`i Vf]W]bhg` : cf` h\Y` hYW]b]W]` W\UfUV]f]nUh]cb` cZ`i Vf]W]bhg`z` h\Y` DfY`]a]bUfm FYdcfh dfcj]XYg`U`V`ta dfY\Ybg]j Y`VUW_] fci bX`"

H\Y`j Ugh`a U`cf]m]cZ`i Vf]W]bhg`i gY`a]bYfU`c]` Ug` VUgY` Zi]X`" =h]g` XYf]j YX` Z`ca` dYhfc`Yi a` gci fW]g`z` gi W` Ug` W]i XY` c]z` g\U`Y` c]z` UbX` V`U`!VYX` a Yh\UbY`" 5Z]Yf` h\Y` fY]Z]b]b[`dfcW]ggz` h\YgY`a]bYfU`c]g` W]b`VY`cZ`X]Z]YfYbh` hmdYg`z` dUfUZ]b]W]c]g`z` bUd`h\Yb]W]c]g`z` UbX` Ufca Uh]W]c]g`" 5`ZYk`i Vf]W]bhg`i gY` fYbYk UV`Y` f]a cgh]mi j Y[YHUV`Y`c]g` Ug` VUgY`c]`]bghYUX`cZ`a]bYfU`c]`/ h\YgY`j Y[YHUV`Y`c]g` UfY` df]a Uf]`mi hf][`m]W]f]XY` YghYfg` XYf]j YX` Z`ca` d`Ubhg` : fca` Ub` Ybj]fcba YbhU` dYfgdYV]h]j Yz` hcl]W]mi UbX` V]cXY[fUXUV`]]mi UfY`]a dcfhUbh` UgdYV]h] hc` V`bg]XYf`]b` W]gY`cZ`gd]`U[Y`cZ` h\Y`i Vf]W]bh`]b` h\Y` Ybj]fcba Ybh` 7cbg]XYf]b[`h\Uh`h\Y`i Vf]W]bhg` k` \]W]` UfY` fY`Yj Ubh` Zcf` h\]g` DGA` a UV]bYfm` UfY` gd]`YX` hc` h\Y` Ybj]fcba Ybh`z` V]cXY[fUXUV`]]mi UbX` hcl]W]mi UfY` fY`Yj Ubh`]ggi YX` hc` HU`Y`]bhc` V`bg]XYfUh]cb` Zcf` h\Y` W]h]Yf]U` gYh]b[["` HfUX]h]cbU` a]bYfU`c]` VUgYX`i Vf]W]bhg` UfY` bch` h\Y` VYgh` dYfZ`ca]b[`cdh]cb`Xi Y`hc`h\Y]f`]bUV`]]mi hc`V]cXY[fUXYz`UbX`hc` h\Y` Z]W]h`h\Ymi fYa U]b`]b` h\Y` YV`bgmghYa` Zcf` U`cb[`h]a Y`" FYbYk UV`Y`c]g`z` Xi Y`hc` h\Y]f` bUh` fU`cf][]b`UbX`gmbh\Yh]W]c]g` h\Uh`W]b`VY`Z]bY!hi bYX`Xi f]b[`]hg`gmbh\Yg]g` hc` \Uj`Y` U`dfcdYf` V]cXY[fUXUV`]]mi UbX` hcl]W]mi `Yj`Y` gYYa g`hc` VY` VYgh` cdh]cbg`Zcf``cgg`i Vf]W]bhg`"

H\Y` cdYfUh]cb`cZ` a UV]bYfm` fYgi`hg`]b` h\Y` [YbYfUh]cb`cZ`k UghYg`c]g` fli Vf]W]h]cb`UbX`]bXi ghf]U`E`" FY[YbYfUh]cb`]g`i gYX`hc`fYV]W]W] h\YgY`i gYX`c]g` Z`ca` U`k]XY`j Uf]YhmicZ`]bXi ghf]U`Udd`]W]h]cbg`" =h`fYgi`hg`]b`h\Y`dfcXi W]cb`cZ` \[\`ei U`]mi VUgY`c]g` h\Uh` W]b`VY`V`YbXYX`k]h`gi]HUV`Y` UXX]h]j Yg` Vmi Z`ca`i`Uhcf]g`hc`a YYh`fYei]fYX`i Vf]W]h]b[`c]g`gdYV]Z]W]h]cbg`Zcf`h\Y`]bhYbXYX` Udd`]W]h]cb`" FY[YbYfUH]X` \Ug`VYYb`fY! hYfa YX` "fY! fY]Z]bYX`" Ug`fY! fY]Z]b]b[`]g` h\Y`dfcW]gg` h\Uh`fYh`fbg`h\Y`c]`hc` U`ei U`]mi gi]HUV`Y`Zcf`]hg`cf][]bU`i gY`" FY[YbYfUH]cb`XcYg`bch`bYV]ggUf`]mi a YUb`h\Uh`h\Y`i Vf]W]bh`]g`gi]HUV`Y`Zcf`]hg`cf][]bU`i gY`" FY! fY]Z]bYX`i Vf]W]bh]c]g`UfY`a cgh]mXYd`cmYX`]b`Zci f! ghfc`Y` Udd`]W]h]cbg`z` UbX` W]b`fYXi W` h\Y`i gY`cZ`fUk`a UHfY]U`g`]b`a]bYfU`c]g`" H\Ymi U`gc` \Uj`Y` UXX]h]cbU` Ybj]fcba YbhU` VYbY]Z]hg` VYV]i gY` h\Y` hcl]W` \YUj`mi a YHU`g`fY`[" "z`n]bVz`YUXz`W]Xa`]i a z`UbX`W]fca`]i a E`UfY`YI hfUV]YX`Z`ca` h\Y`i gYX`c]" H\YgY`a YHU`V`ta dci bXg`UfY`gc`X]Z]YX`UbX`ghUV`]nYX`]bhc`Ugd`U`h` Zi l`z` h\YfYVmi dcg]b[`a]b]a U` Ybj]fcba YbhU` f]g`" =Z`i gYX`c]g` UfY` V`ta Vi ghYXz` \ck`Yj Yfz`a YHU`g`]b`h\Y`Zi Y` [UgYg` W]b`VY`fY`YUgYX`]bhc`h\Y` Uha cgd`YfY`i b`Ygg` h\Ymi UfY` W]dhi fYX` Vmi U]f`dc`i h]cb` UVUH]Ya Ybh` Yei]da Ybh`"

A UWX]bYfmYei]ddYX`k]h`Yb[]bYg`fYei]fYg`i Vf]WUbhg" Hk c`!`ghfc_Y`Yb[]bYg`
fi b`cb`U`a]l hi fY`cZ[Ugc`]bY`UbX`hk c`!`ghfc_Y`i Vf]WUbh`c]" Hk c`!`ghfc_Y`c`
]g`U`dUfh]W`Uf`hmdY`cZ`a`chcf`c`]"bHybXYX`Zcf`i`gY`]b`WU`Ub`WUgY`Vta`dfYgg]cb`
hk c`!`ghfc_Y`Yb[]bYg`"HAY`c`]"g`a`]l`YX`k]h` [Ugc`]bY`fFYgi`h]b[]b`dYhfc]"E`UbX`
]g`X]ghf]Vi`hYX`h`fci [\`ci`h`h`Y`Yb[]bY`Zcf`i`Vf]WU]cb" HAY`i`Vf]WUbh`]g`
VtbgYei`Ybh`mi`fY`YUgYX`]bhc`h`Y`Ybj`]fcb`a`Ybh`Xi`f]b[]h`Y`Vta`Vi`gh]cb`WVW`
cZ`h`Y`Yb[]bY`"

@ Vf]WUbhg`fMX`U]bgUk`c`]g`UbX`#cf`[fYUgYgk`UfY`U`gc`fYei]fYX`Zcf`W`h]b[]
dUfhg`cZ`a`UWX]bYfm`h`Uh`UfY`bch`Yb`WcgYX`gi`W`Ug`h`Y`VUF`UbX`WU]b`cZ`
WU]b`gUk`g`UbX`h`YfY`]g`YggYbh]U`m`bc`X]ZZYfYbW`]b`h`Y`hmdY`cZ`i`Vf]WU]cb`
i`gYX`fY[UfX`Ygg`cZ`h`Y`dck`Yf`gci`fW`cZ`h`Y`a`UWX]bY`f]"Y`"Y`YVWf]W`cf`
[Ugc`]bY!`dck`YfYXk`"

A UWX]bYfm`gi`W`Ug`Uk`b`a`ck`Yfg`Ug`k`Y`"Ug`gk`YYdYfg`UbX`gdfYUXYfg`
cdYfU]b[]cb`Zci`f`!`ghfc_Y`WVW`Yb[]bYg`Ugc`fYei]fY`i`Vf]WU]cb`k]h`h`Y`
U]X`cZ`Zci`f`!`ghfc_Y`c`]g`" =b`Zci`f`!`ghfc_Y`Yb[]bYg`h`Y`c`]"UbX`Z`Y`UfY`
Vt`bhU]bYX`]"b`gYdUfUHY`W`Ua`VYfg`":`ci`f`ghfc_Y`Yb[]bYg`UfY`i`Vf]WU]hYX`Vmc`]"
Vt`bhU]bYX`]"b`h`Y`c`]"gi`a`d`"HAY`c`]"g`X]ghf]Vi`hYX`h`fci [\`h`Y`Yb[]bY`Vm`
gd`Ug`"i`Vf]WU]cb`cf`U`dfYggi`f]nYX`i`Vf]WU]cb`di`a`d`gmghYa`hc`Ybgi`fY`
Vt`c`]b[]UbX`h`Y`fYXi`W]cb`cZ`Z]W]cb/`h`YgY`gmghYa`g`a`Um`VY`i`gYX`U`cbY`cf`
hc[Yh`Yf`"5`h`ci [\`h`Y`Zci`f`!`ghfc_Y`i`Vf]WUbhg`UfY`bch`h`U`m`cgh`Xi`Y`hc`
Vta`Vi`gh]cb`k]h`h`Y`Z`Y`fUg`]b`h`Y`hk`c`!`ghfc_Y`E`UW]XYbhU`cggYg`fXi`Y`hc`
gd]"g`Z`]a`dfcdYf`k`UghY`cf`X]gdcgU`E`WU`b`c`WV`f`"

< mXfUi`]WZi`]Xg`f`dfYggi`fY`Zi`]Xgk`UbX`[YUf`c`]g`UfY`i`gYX`]b`gmghYa`g`Zcf`h`Y`
dfchYW]cb`cZ` \`mXfUi`]W`a`UWX]bY`Vta`dcbYbhg`UbX`U`gc`hc`hfUbgZYf`dck`Yf`
HAY`mi`UfY`Vta`a`cb`mi`Zci`bX`]b` \`mXfUi`]W`a`UWX]bYfm`gi`W`Ug`Yi`W]j`Uhc`fg`UbX`
VUW` \`cYg`Z` \`mXfUi`]W`VfU`Yg`Z`hfUbg`a`]gg]cbg`Z`[UfVU[Y`hfi`W`g`Z`U]f`WUZh`Z][\`h`
Vt`bhfc`gmghYa`g`Z`]Zg`Z`UbX`]bXi`ghf]U`a`UWX]bYfm`i`; YUf`c`]g`dYfZcfa`U`g]a`]Uf`
Z`bW]cb`Z`U`h`ci [\`h`Y`mi`UfY`a`UXY`gdYV]Z]W`mi`Zcf`hfUbg`a`]gg]cbg`Z`hfUbgZYf`
WUgYg`Z`UbX`X]ZZYfYbh]U`g`]b`Ui`hca`cV]Yg`Z`hfi`W`g`Z`UbX`ch`Yf`a`UWX]bYfm`i`

: cf`h`Y`Z]fgh`dfcdcgU`fHF`%`\$`E`h`Y`W]hYf]cb`cb`i`Vf]WUbhg`ZcW`gYX`cb`mi`cb`
hk`c`!`ghfc_Y`UbX`WU]bgUk`c`]g`"H`YfY`ZcfY`Z`h`Y`W]hYf]cb`UbX`h`Y`j`Yf]Z]WU]cb`
fYei]fYa`Ybhg`k`YfY`U`][bYX`k]h`h`Y`j`Yfg]cb`cZ`h`Y`fYj`]g]cb`cZ`h`Y`9i`
9Vt`UVY`cZ`@ Vf]WUbhg`f7`ca`a`]gg]cb`8`Y`W]g]cb`&\$%`#` ,`%#9i`E`Uj`U]UV`Y`Uh`
h`Y`h]a`Y`cZ`h`Y`XfUZh]b[]cZ`h`Y`fYdcfh`"HAY`U`hYf`U]a`g`hc`dfca`chY`]b`
UXX]h]cb`hc`V]c!`VUgYX`i`Vf]WUbhg`Z`gYj`YfU`U`hYfbUhj`Yg`hc`Vt`bj`Ybh]cbU`
a`]bYfU`i`Vf]WUbhg`h`Uh`dfYgYbh[ccX`V]cXY[fUXUV]]hmidchYbh]U`Z`ck`hcl]W]mi`
UbX`UfY`bch`V]cUWV`a`i`Uh]j`Y`"

HAY`a`U`cf]hmicZ`ghU`Y`c`XYfg`U[fYX`k]h`h`Y`W]hYf]cb`dfcdcgYX`Vi`h`Ug`YX`
h`Uh`%`E`]h`]g`U`][bYX`k]h`h`Y`9i`9Vt`UVY`Zcf`@ Vf]WUbhg`h`Uh`UfY`W`ffYbh`mi`
VY]b[]fYj`]gYX`/`&`E`h`Y`i`gY`cZ`fY[YbYfUHYX`i`Vf]WUbh`c`]g`g`ci`X`U`gc`VY`
Vt`bg]XYfYX`" <ck`Yj`Yf`Z`Ub`c`V`W]cb`k`Ug`fU]gYX`h`Uh`dc`m`U`d`Uc`YZ]bg`
fD5`C`gk`cf`dc`m`U`_m`YbY`[`m`Vt`g`fD5;`gk`UfY` \`][\`m`fYZ]bYX`W`Ya`]W]g`h`Uh`
fYei]fY`U`ch`cZ`YbYf[mi`hc`dfcXi`W`"5`W`Vt`fX]b[]hc`h`Y`ghU`Y`c`XYfg`Z`h`]g`
Vt`bhfUX]W]g`h`Y`9i`c`V`W]j`Yg`cZ`]a`dfcj`]b[]bYf[mi`UbX`fYgci`fW`Y`ZZ]W]YbW]mi`
: i`f`h`Y`fa`cfY`Z`Ug`fY[UfXg`W]fVcb`XYf]j`YX`Z`ca`fYbYk`UV`Y`fUk`a`UhYf]U`g`Z`

J Yf]Z]W]h]cb.

H\Y`hYbXYfYf`a i gh`dfcj]XY`h\Y`hYV\W]W]g\YYhg`cZ`h\Y`fY`Yj Ubh`i Vf]W]bh`hc`VY`gi dd`]YX`"
DfcXi V\g`h\Uh`UfY`V\ta d`]Ubh`k]h`9l`9V\UUVY`cf`Yei]j U`Ybh`hmdY`%`YV\UUVY`Z`Z`]b[`h\Y`
UVcj Y`fYei]fYa Ybhk]`VY`XYYa YX`hc`V\ta d`m`"

("&`: cf`Zci f!ghfc`_Y`i Vf]W]bhgz`i b`Ygg`h\Y`a Ubi Z]W]i fYf`cZ`h\Y`a UW]bYfm`fYV\ta a YbXg`
Ubch\Yf`hmdY`cZ`i Vf]W]bh\h`h\Y`i Vf]W]bh`cZ`h\Y`a UW]bYfm`a i gh`VY`ck`j]gV\g]m`Yb[]bY`
i Vf]W]bh`c]g`f!@`@`cf`fY!fYZ]bYX`i Vf]W]bh`c]g`z`k]h`U`a]b]a i a`cZ`&) i`fY!fYZ]bYX`VUgY`
c]g`"@`@`UfY`h\cgY`V\ffYgdcX]b[`hc`G59`[fUXY`bi a VYf`\$K`'\$`cf`) K`'\$`cf`Yei]j U`Ybh`"

J Yf]Z]W]h]cb.

H\Y`hYbXYfYf`a i gh`dfcj]XY`U`XYWUfUh]cb`cZ`V\ta d`]UbW`k]h`h`g`W]hYf]cb`gi ddcfhYX`Vm
h\Y`a UhYf]U`gUZYfmXUh]g\YYhg`Zcf`U`dfcXi V\g`gi dd`]YX`]b`h\Y`YI`YV`h]cb`cZ`h\Y`V\bfUW`"

) "%!- A UW]bYfmA UhYf]U`g`!`7f]hYf]cb`k]h`XfUk b`

F Uh]cbU`Y`

H\Y`a Ubi Z]W]i fY`cZ`DGA`a UW]bYfm`fYei]fYg`h\Y`i h`]nUh]cb`cZ`X]ZZYfYbhi
a UhYf]U`g`gi V\`Ug`dYhfc`VUgYX`a UhYf]U`fd`Ugh]V\g`UbX`fi VVYfg\z`cf`a YhU`]W
a UhYf]U`g`z`k \]W`fYei]fY`U`Uf[Y`Ua ci bh`cZ`YbYf[mXi f]b[`h\Y]f`dfcXi V\]cb`
Ug`XYhU]YX`]b`h\Y`DfY`ja]bUfm`fYdcfh`H\i g`h\Y`dfcXi V\]cb`cZ`h\YgY`fUk`
a UhYf]U`g`V\bf]Vi hYg`g][b]Z]W]bhmi`hc`h\Y`]ZY`V\WY`Ybj]fcb`a YbhU`]a dUW\g`
cZ`h\Y`a UW]bYfmYI`Ua]bYX`"

D`Ugh]V\g`UfY`h\Y`gYV\bx`a cgh`Xca]bUbh`a UhYf]U`g`i gYX`UZ\Yf`a YhU`g`]b`
a U_]b[`a UW]bYfm`k \]W`UfY`Ya d`cmYX`Zcf`DGA`z`UbX`a cgh`cZ`h\Ya` \Uj`Y`
VYYb`W\Ya]W]m`a cX]Z]YX`hc`YbUV`Y`h\Y`a UhYf]U`k]h`gh]UbX`ci hXccf`
k`cf_]b[`V\bx]h]cbg`h\fc`i [\`h\Y`UXX]h]cb`cZ`j`Uf]ci`g`W\Ya]W]g`gi V\`Ug`
D\h`U`UhYg`fY"[""`89<D`fX]fYh`m\YI`m\`d\h`U`UhY\z`X]Vi`hmi`d\h`U`UhY`fB`6D\`
UbX`Vi`hmi`VYbnmi`d\h`U`UhY`fB`6D\`5g`d\h`U`UhYg`UfY`bch`W\Ya]W]m`Vci`bX`
hc`h\Y`a UhYf]U`z`h\Ymi`W]b`YU`_`Zfca`a UhYf]U`g`UbX`VY`UVgcfVYX`Vm`h\Y`
VcXm`"

H\YgY`gi Vgh]UbW]g`UfY`WUgg]Z]YX`Ug`hcl]W]hc`\i`a Ub`]ZY`UbX`h\Y`Ybj]fcb`a Ybh
UbX`Ug` \][\`mi`hcl]W]hc`Uei`Uh]W`cf[]b]ga`g`" H\Y`9l` \Ug`]bhfcXi`W\X`
fYghf]W]cbg`Zcf`U`ZYk`cZ`h\YgY`d\h`U`UhYg`" =b`h\Y`9i`fcdYUb`I`b]cb`h\Y`i`gY`cZ`
89<Dz`66Dz`UbX`86D`UfY`fYghf]W\YX`Zcf`U`hcmg`/`8`=BDz`8`=8Dz`UbX`8BCD`UfY`
fYghf]W\YX`cb`mi]b`hcmg`h\Uh`W]b`VY`hU`_Yb`]bhc`h\Y`a`ci`h`" H\Y`fYghf]W]cb`]g`
\]b[]YX`hc`h\Y`V\bx]h]cb`h\Uh`h\Y`Ua`ci`bh`cZ`h\YgY`d\h`U`UhYg`a`Um`bch`VY`
[fYUhYf`h\Ub`\$`%` `a`Ugg`dYfW]bh`cZ`h\Y`d`Ugh]W]hYX`dUfh`cZ`h\Y`hcm`"

H\Y` \][\`a`c`YW`Uf`k`Y][\`h`d\h`U`UhYg` 8`=BDz` 8`=8D` UbX` 8D<D` UfY` bch`
WUgg]Z]YX`Zcf`Ubm`YU`h`cf`Ybj]fcb`a YbhU`YZZYV\g`UbX`\Uj`Y`VYYb`fY[]ghYfYX`
i`bXYf`F`957<`" <ck`Yj`Yfz`h\Y`ck`Yf`a`c`YW`Uf`k`Y][\`h`dfcXi`V\g`66Dz`89<Dz`
8`=6Dz`UbX`86D`\Uj`Y`VYYb`]bW`XYX`]b`h\Y`7UbX]XUhY`]gh`cZ`Gi`Vgh]UbW]g`Zcf`
5i`h\cf]nUh]cb`i`bXYf`F`957<`]b`:`YVfi`Ufm`&\$%%`" H\YfYZcfY`Zfca`:`YVfi`Ufm`
&\$%)`h\Ymi`UfY`bch`U`ck`YX`hc`VY`dfcXi`W\X`]b`h\Y`9l`i`b`Ygg`Ui`h\cf]nUh]cb`

\Ug'VYYb' [fUbhYX'Zcf'U'gdYVWZ]Wi gYž' \ck Yj Yf' h\Yma Umigh]''VY']a dcfhYX']b' Včbgi a Yf'dfcXi Vtg''

=b' h\Y' HF%'\$ž' U' W]hYf]cb' `]a]h]b[' h\Y' dfYgYbVW' cZ' U' k \c'Y' [fci d' cZ d\h\U'UHyg' i gYX' Ug' d'Ugh]VhYfg']b' h\Y' a Ubi ZUVi fY' cZ DGA' fY'UHhYX' a UVX]bYfm k Ug' dfcdcgYX'' H\Y']bhfcXi V]cb' cZ h\]g' k Ug' VUgYX' cb' fYgYUfVX' fYgi' hg' h\Uh']bX]W]h]b[' h\Uh' V]c! VUgYX' d'Ugh]VhYf' VUgYX' cb' j Y[YhUV'Y' c]g' Vči' X' VY' a Ubi ZUVi fYX' Uh' h\Y' gUa Y' df]W' k]h' g]a]Uf' dYfZcfa UbW' Vča dUfYX' hc' h\Y' cbY' cZ h\Y' a cgh' Vča a cb'm i gYXž' d\h\U'UHhž' X]cV]m' d\h\U'UHh'' =bZcfa Uh]cb' Uj U]UV'Y' Zfca' Vči bhf]Yg' gi V\ Ug' 8Yba Uf_ Ugc']bX]W]hYX' U' dchYbh]U' hfYbX' cZ A Ya VYf' ghUhg' hc k UfXg']a]h]b[' UbX' d\Ug]b[' ci h' d\h\U'UHhYg']b' h\Y' di V]W XYa UbX' Zcf' dfcXi Vtg' UbX' gYfj]Wg' cb' U' j c'i bhUfmVUg]g''

GHU_Y\c'XYfg' \UX' gd]h' j]Yk g' cb' h\]g' W]hYf]cb'' H\cgY']b' ZUj ci f' UW_bck' YX[YX' h\Uh' h\Y' W]hYf]cb' a][\h' VY' i gYX' cb'm k \Yb' di fVX Ug]b[' h\Y' a UVX]bYg' Vi h' \UfX'm k \Yb' di fVX Ug]b[' gYfj]Wg'' H\]g']g' VYVWi gY' fYei]f]b[' XYHJ]YX']bZcfa Uh]cb' cb' a UVX]bYfm a Uhf]Ug' a][\h' VY' hc' Vča d']W]hYX' k \Yb' Vi m]b[' gYfj]Wg'' H\Ymgi [[YghYX']h' Vči' X' gh]'' VY' UVVV dHUV'Y']Z]h' k Ug' dfcdcgYX' cb'm Ug' Ub' 5k UfX' 7f]hYf]U' Uh' h\Y' Vča dfY\Ybg]j Y' Yj Yž' Vi h']h' a][\h' VY' `]a]hYX']b']hg']a dUVh'' H\Y' ghU_Y\c'XYf' U[U]bgh' h\Y' W]hYf]cb' ei Ygh]cbYX' h\Y' UXXYX' j U' i Y' cZ h\Y' W]hYf]cb' hc']a dfcj Y' \YU'h' UbX' Ybj]fcba Ybh' dfchYV]cb'' =h' k Ug' h\Y' cd]b]cb' cZ h\Y' UhhYf' h\Uh' h\Y' i gY' cZ gca Y' V\Ya]W]gž' gi V\ Ug' W]Xa]i a ž' YUX' UbX' a YfW' frž' UfY' bYVW'ggUfm]b' j Yfm gdYVW]WUdd']W]h]cbg' hc' Ybgi fY' dYfZcfa UbWž' Xi fUV]]m' UbX' gUZYhm' cZ Yei]da Ybh' Ug' gi V\ U' "VUb'' Vči' X' Vča dfca]gY' Yei]da Ybh' gUZYhm' H\]g' VčbW'fb' k Ug' Ugc' fU]gYX' Vm' Ubch\Yf' ghU_Y\c'XYf' k \c' Vča a YbhYX' h\Uh' dfcdcg]b[' dYfW'bhU[Yg' Ug' dUfUa YhYfg' k ci' X' cb'm \Y'd']Z h\Y']a dUVh' cZ]a d'Ya YbhU]cb' cZ h\Y' W]hYf]cb' X]X' bch' UZZYVh' h\Y' ghfi Vh' fU' ghUV]]m' cf']bhY[f]hmicZ a Ubi ZUVi fYX' dUfhg''

: i fh\Yfa cfYž' h\Y' j Yf]Z]W]h]cb' cZ h\Y' Vča d']UbW' UbX' YbZcfW'a Ybh' cZ h\Y' fYei]fYa Ybhg' cZ h\Y' W]hYf]cb' k Ug' ei Ygh]cbYX' Ug' UVVčfX]b[' hc' h\Y' gUa Y' ghU_Y\c'XYfž' h\Y' W' ffYbh' Uj U]UV'Y' a Yh\cXg' i gYX']b' h\Y' [UfXYb' a UVX]bYfm gYVčf' Zcf' d\h\U'UHhYg' \Ug' U' XYhYV]cb' `]a]h' cZ) \$' a [#_["''

=b' Včbg]XYf]b[' \ck' hc' UXXfYgg' h\Y' Vča a Ybhg' Zfca' h\Y' ghU_Y\c'XYfgž' h\Y' hk c' HmY' = YVč' UVY' g' \Uj Y' W]hYf]U' gdYVWZm]b[' `]a]hg' Zcf' h\]g' W]hYf]cb' k YfY' fYj]Yk YX'' 5'h' ci [\ ' h\YfY']g' Ub']bX]W]h]cb' h\Uh' h\YfY' a Um' VY' gca Y' [UfXYb]b[' a UVX]bYfm' W]dUV'Y' cZ a Yfh]b[' h\]g' W]hYf]cb' fU]_]b[ž' &\$%&ž' fk k k "hcdhYb"V\ž' &\$% ž' h\Y']bZcfa Uh]cb']g' bch' VčbW' g]j Y'' 5'gc' d\h\U'UHh! ZfYY' d'Ugh]VhYf' \Ug' Udd']W]h]cbg']b' a YX]W] XYj]W]gž' V\]X' dfcXi Vtgž' UbX' ZccX' dUW]U[]b[' Vi h']h]g' i bWYUf']Z]h' W]b' VY' Udd']YX' Zcf' i gY' Zcf' d'Ugh]Vg' i gYX' Zcf' DGA' fY'UHhYX' a UVX]bYfm' i gYX'' Gi a a Uf]mž' h\YfY']g' bch' Ybci [\ ']bZcfa Uh]cb' hc' UggYgg' h\Y' bi a VYf' cZ YVč' UVY' YX' a UVX]bYfm' hc' fYHJ]b' h\Y' W]hYf]cb''

H\]g' Vči d'YX' k]h' h\Y' X]Z]W' hm' cZ j Yf]Zm]b[' Vča d']UbW' Xi Y' hc' h\Y' W' ffYbh' XYhYV]cb' `]a]hgž' \Ug' YX' hc' U' XYV]g]cb' hc' k]h' XfUk' h\Y' W]hYf]cbž' Ugc' Zcf' h\Y' gYfj]W]g' gYV]cb''

) "%%\$ A UWX]bYfmc dYfUh]cb`UbX`a U]bhYbUbW`

F Uh]cbU`Y`

5g` XYgW]VYX`]b` h\Y` dfY`ja]bUfmi fYdcf hž` h\Y` cdYfUh]cb` cZ` a UWX]bYfmi]g` U` a U`cf` V`bhf]Vi hcf` hc` h\Y` cj` YfU`]a dUWg` Uf]g]b[` h\fc i [\ci h`]hg`]ZY` gdUb` DfcdYf` cdYfUh]cb` cZ` a UWX]bYfmi UbX` Yei]da Ybh` W]b` fYgi `h`]b` U` fYXi W]cb`]b` Vch` Z` Y` V`bgi a dh]cb`UbX`Ybj]fcb a YbhU`]a dUWg`

7f]hYf]cb`DfcdcgU`

7cfY`W]hYf]U`	7ca`dfY\`Ybg]j`Y`W]hYf]U`
HYWb]W`GdYV]Z]W]cb`	
HG) "CdYfUh]cb`UbX`a U]bhYbUbW`]bghfi`W]cbg` H\Y`a UWX]bYfmi a i gh`VY`gi dd`]YX`hc[Yh\Yf`k]h`]hg` hYWb]W]`gdYV]Z]W]cbg`UbX`U`gc`i`gYf`]bZcfa Uh]cb` fY`Yj Ubh` Zcf` cdYfUh]b[` h\Y` a UWX]bYfmi k]h` fYXi W]X` Z` Y` UbX` YbYf[mi V`bgi a dh]cbž`a U]bhU]b]b[ž`UbX`Yi hYbX]b[`]hg`]ZYgdUb`	
J Yf]Z]W]cb.` H\Y`hYbXYfYf`a i gh`dfcj]XY`i`gYf`]bghfi`W]cbg`V`bhU]b]b[`]bZcfa Uh]cb`UVci`h`cdYfUh]b[`UbX` a U]bhU]b]b[` h\Y`a UWX]bYfmi`	

) "& A UW]bYfmi gYX`]b`h`Y`dfcj]g]cb`cZ`gYfj]Wg`

H\]g` W]hYf]U` gYh` V`j` Yfg` h`Y` f`Yei`]fYa` Ybhg` cb` a` UW]bYfmi` i` gYX` Zcf` h`Y` XY`]j` Yfmi`cZ`di` V`]W`a` U]bhYbUbW`gYfj`]Wg`]bW` X]b[` .`

- ;` UfXYb]b[` `gYfj`]Wg`
- 7`YUb]b[` `gYfj`]Wg`

H\YgY` gYfj`]Wg` UfY` hc` VY` UW]Yj` YX` k`]h` h`Y` U]X` cZ` [` UfXYb]b[` `a` UW]bYfmi` fY"[` ""`Uk` ba` ck` Yfgz` \`YX`[` Y` W`hYfgz` YhVz` UbX` a` i` b]WdU` a` UW]bYfmi` fY"[` ""` Zcf` V`ta` dUW]` ghfY`Yh` gk` YYdYfg` UbX` gdfYUXYfgt` Ug` XYHJ]YX`]b` h`Y` a` UW]bYfmi` dfcXi` Wg`gYV]cb""`

=bdi` hg` [` Uh`YfYX` Z`fca` `ghU`_Y`c`XYfg`cb`a` UW]bYfmi` gYX` Zcf` h`Y`dfcj`]g]cb`cZ` gYfj`]Wg` U[` fY`YX` h`Uh`U`h`ci` [` \` h`YfY`]g` U` d`cg]h]` Y` hfYbX`]b` h`Y` XYj` Y`cda` Ybh` cZ` VU`hYfm`Y`YVW]WYei`]da` Ybh`z` U` V`ta` d`Yh`gk`]hW` Vm`gYfj`]W`dfcj`]XYfg` a` Um` bch` VY` dfUW]W`m`ZYUg]V`Y""` 5`W`cfX]b[` `hc` U` ghU`_Y`c`XYfz` h`Y`]b`h`cXi` W]cb`cZ` h`Y` Y`YVW]W` VU`hYfm` h`VW`bc`c[` mi`]b` h`Y` dfcZYgg]cbU` di` V`]W` gdUW` a` U]bhYbUbW`gYV`cf`]g` gi` V`YV`hc` h`Y` V`tbX]h]cb` h`Uh`h`Y` Yei`]da` Ybh` \` Ug` Ub` Yei`]j` U`Ybh` dYfZcfa` UbW` hc` h`Y` dY`h`c`!`dck` YfYX` dfcXi` Wg""` =h` k` Ug` U`gc` Uf[` i` YX` h`Uh`h`]g`]g` bch` h`Y` W]gY` bck` z` bcf` k`]` bch` VY` h`Y` W]gY`]b` h`Y` bYUf` Z` hi` fY` Ug` h`Y` YbYf[` mi` V`tbhYbh` cZ` U` VU`hYfm` XcYg` bch` a` UhW` h`Y` YbYf[` mi` V`tbhYbh`cZ`dY`h`c`Uh`Yei`]j` U`Ybh`k` Y][` \`h""`

:` fca` `Ub` 9i` ;` DD` dYfgdYV]j` Yz`]h`]g` UW`bck` YX`[` YX` h`Uh` h`YgY` V`ta` a` Ybhg` V`ti` X` VY` a` cfY` Udd`]WV`Y` hc` W`fHJ]b` h`mdYg` cZ` a` UW]bYfmi` fUh`Yf` h`Ub` h`Y` V`ta` d`Yh` fUb[` Y`cZ` a` UW]bYfmi` Yei`]da` Ybh` XYd`cmYX` Zcf` h`Y` a` U]bhYbUbW` cZ` di` V`]W`gdUW]g""` H`YfY`ZcfYz` h`Y` W]hYf]U` cf][`]bU`m` dfcdcgYX`]b` HF`%`\$` k` YfY` dUfh]U`m` Ua` YbXYX`]b` h`Y` gYV`tbX` h`VW`b]W` fYdcfh` fHF`&`\$t` H`Y` Ua` YbXa` Ybhg` UfY` fYHJ]bYX`]b` h`]g` H`YV`b]W` F`Ydcfh""`

) "&%" A UW]bYfmi9b[]bY`9i` \Ui` gh`9a`]gg]cbg`

F Uh]cbU`Y`

H`Y` a` U]bhYbUbW` cZ` di` V`]WgdUW]g` f`Yei`]fYg` h`Y` XYd`cma` Ybh`cZ` U`j` Uf]Yfmi`cZ` a` UW]bYfmi` UbX` Yei`]da` Ybh` fk` \`]W` a` Um` VY` VUgYX` cb` X]ZZYfYbh` h`VW`bc`c[`]Ygk`]b` dUfU`Y""` Cj` Yf` h]a` Yz` c`XYf` a` UW]bYfmi` k`]` VY` fYh]fYX` UbX` fYd`UW]X` Vmi` h`cgY` VUgYX`cb` W`ffYbh`h`VW`bc`c[`]Yg""`

9`YVW]W`VU`hYfm` dck` YfYX` a` UW]bYfmi`]g`]bW]YUg]b[` `mi` VY]b[` `i` gYX` Ug`]h` \` Ug` nYfc` X]fYV]` Ya`]gg]cbg` UbX` j` Yfm` `ck` `bc]gY` Ya`]gg]cb` `Yj` Y`g` Vi` h`]h` XcYg` bch` V`tbgh]hi` h`Y` h`Y` cb`mi`h`VW`bc`c[` mi]b` Ubmia` UW]bYfmi`ZY`Yh` Bc`di` V`]Wmi`Uj` U]UV`Y`]bZcfa` Uh]cb` XYHJ]b[` `h`Y`]bj` Ybh`cfmi` cZ` a` UW]bYfmi` Ya` d`cmYX` Vmi` di` V`]W` Ui` h`cf]h]Yg` k` Ug` Uj` U]UV`Y` hc` YbUV`Y` U` X]gU[` [` fY[` Uh]cb` cZ` h`Y` X]ZZYfYbh` h`VW`bc`c[`]Yg""` <`ck` Yj` Yfz`]bZcfa` Uh]cb` cVhJ]bYX` Z`fca` `h`Y` K` UghY` UbX` Di` V`]W` GdUW` A` U]bhYbUbW` 5i` h`cf]m` cZ` h`Y` V]mi` cZ` Gyj`]`Yz`]bX]W]hYX` h`Uh` U` g][` b]Z]W]bh` dfcdcfh]cb` cZ` h`Y` Yb[`]bYg` cZ` h`Y` a` UW]bYfmi` XYd`cmYX` Zcf` h`Y` dfcZYgg]cbU` a` U]bhYbUbW` cZ` di` V`]WgdUW]g`]b` h`Y` W]mz` UfY` Z` Y` Yb[`]bYgz` UbX` cb`mi`U`ga` U` Z`UW]cb` UfY` Y`YVW]WVU`hYfm`dck` YfYX""` H\]g` fYgi` h`YX`]b` h`Y` Z]fgh`

H\Y`BFAA`fY[i`Uh]cb`k`j`fYgi`h`j`b`Ub`]bWYUgY`]b`h\Y`bi`a`VYf`cZ`a`UW`]bYfm
Vta`d`m]b[`k`]h`GHU[`Y`J`" `H\YfYZcfY`U`hYW`b]W`gdYVZ]W]h]cb`Uh`Vch`h`h\Y`
VtfY`UbX`Vta`dfY\Ybg]j`Y`Yj`Y`" `g`dfcdcgYX`h`Uh`U`" `a`UW`]bYfm`gUh]gZm`h`]g`
fY[i`Uh]cb`Ug`U`a`]b]a`i`a`" `H\Y`Uj`YfU[`Y`i`gYZ`" `]ZY`cZ`a`UW`]bYfm`Ya`d`cmYX`
]b`h\Y`dfcj`]g]cb`cZ`[`UfXYb]b[`gYfj`]W`g`]g`UVci`h`" `) `mYUf`fk`Yb`fci`bXYX`i`dE`
UZhYf`k`]\W`" `]h`]g`fYd`UWYX`fbY`Y`HUV`Y`&tZ`fUbX`" `]h`]g`j`Yfm`_]Y`m`h`Uh`Ygg`
dc`" `i`h]b[`a`UW`]bYfm`dck`YfYX`Vm`VUthYfm`k`]" `VY`dfcW`fYX`Ug`fYd`UW`a`YbH`"
H\]g`VtfYgdc`bXg`hc`U`fYd`UW`a`Ybh`fUHY`cZ`fci`[`\`m`&) `i`cZ`h\Y`a`UW`]bYfm`
ZYYH`" `H\]g`dYfW`bHJ[`Y`]g`h`i`g`Udd`]YX`Ug`U`a`]b]a`i`a`" `Uh`h\Y`VtfY`Yj`Y`" `5h`
h\Y`Vta`dfY\Ybg]j`Y`Yj`Y`Z`]h`]g`dfcdcgYX`h`Uh`h`]g`a`]b]a`i`a`" `]g`Z]`YX`Uh`) `\$i`
cZ`h\Y`a`UW`]bYfm`VY]b[`Yei`]ddYX`k`]h`nYfc`YI`\`Ui`gh`Ya`]gg]cb`Yb[`]bYgZ`h\Y`
fYa`U]b]b[`dYfW`bHJ[`Y`k`]" `VY`]b`Vta`d`]UbW`k`]h`h\Y`GHU[`Y`J`" `]a`]hg`
gdYVZ]YX`Vm`h\Y`BFAA`fY[i`Uh]cb`" `H\Y`WffYbh`Uj`YfU[`Y`g`UfY`cZ`VUthYfm`
dck`YfYX`a`UW`]bYfm`ck`bYX`Vm`U`gYfj`]W`dfcj`]XYf`]g`i`b`_bck`b`" `<ck`Yj`YfZ`Ug`
h\Y`dfcdcfh]cb`cZ`h`]g`hmdY`cZ`a`UW`]bYfm`k`]" `]bWYUgY`cj`Yf`h]a`YZ`U`
dYfW`bHJ[`Y`mYUf`m`]bWYUgY`cZ`%\$i`" `]g`dfcdcgYX`k`]\W`]bW`XYg`X]ZZYfYbh`
mYUf`m`h]Yfg`Zfca`&\$%-`hc`&\$&%`hc`fYZYW`h\Y`a`Uf`_Yh`Yj`c`i`h]cbZ`a`U]bHJ]b`
h\Y`Ua`V]h]cb`Yj`Yz`UbX`hc`dfYj`Ybh`h\Y`XYd`cma`Ybh`cZ`bcb!`Vta`d`U]bh`
Yei`]da`Ybh`" `H\Y`cV`YV]j`Yg`cZ`h\Y`hYW`b]W`gdYVZ]W]h]cb`UfY`Vta`d`Ya`YbhYX`
Vm`Ub`Uk`UfX`W]hYf]cb`UbX`VtbfUV`dYfZcfa`UbW`WUi`gY`"

) "&'%%% Gi a a UfmicZ`ghU`Y\c`XYfg`Vta`a`Ybhg`Zfca`
5<K ; &

5`ghU`Y\c`XYf`k`Ug`cZ`h\Y`cd]b]cb`h`Uh`h\Y`bchY`YI`Ya`dh]b[`Vta`d`UW`
gk`YYdYfg`UbX`gdfYUXYfg`Zfca`h\Y`W]hYf]cb`cb`A`UW`]bY`9b[`]bY`9i`\`Ui`gh`
9a`]gg]cbg`fHG) `E`g\`ci`X`VY`fYa`cj`YX`Ug`U`dYfW`bHJ[`Y`W]hYf]U`]g`dfcdcgYX`
UbX`]h`]g`U`gYfj`]W`h`Uh`h\Y`di`fW`UgYfg`UfY`[`c]b[`hc`Vi`nZ`bch`dfcXi`Wg`" `H\Y`
gUa`Y`ghU`Y\c`XYf`Ugc`gi`[`[`YghYX`h`Uh`h\Y`dYfW`bHJ[`Yg`gdYVZ]YX`]b`h\Y`
W]hYf]cb`cb`U]f`dc`" `i`H]bh`Ya`]gg]cbg`dYfZcfa`UbW`fHG*`E`a`[`\`h`VY`hc`c`ck`
UbX`a`Ybh]cbYX`h`Uh`U`bchY`Vti`X`VY`]bW`XYX`hc`ghUHY`h`Uh`dYfW`bHJ[`Yg`
a`Um`VY`UV`Y`hc`VY`\`][`\`Yf`Ug`di`fW`UgYfg`U`k`Um`g`\`Uj`Y`hc`W`YW`k`\`Uh`]g`
ZYUg]V`Y`k`]h`\`cW`#fY[`]cb`U`gi`dd`]Yfg`cZ`gYfj`]W`g`"

5bchYf`ghU`Y\c`XYf`E`]b`fYgdc`bgY`hc`h\Y`Vtbg`hUh]cb`ei`Ygh]cb`cb`h\Y`
W]hYf]cb`cb`A`UW`]bY`9b[`]bY`9i`\`Ui`gh`9a`]gg]cbg`fHG) `E`!`bchYX`h`Uh`h\Y`
fYei`YghYX`dYfW`bHJ[`Yg`UfY`j`Yfm`\`][`\`UbX`Vti`X`VY`i`bfYU`]gh]W`YgdYVU`m`
Zcf`h`cgY`a`Uf`_Yhg`k`\`YfY`a`U]b`m`hfi`W`a`ci`bhYX`gk`YYdYfg`UfY`i`gYX`" `=h`k`Ug`
gi`[`[`YghYX`h`Uh`]h`i`a`[`\`h`VY`bYW`ggUfm`hc`X]ZZYf`VYhk`YYb`X]ZZYfYbh`
Udd`]W]h]cbg`UbX`hc`fYei`]fY`X]ZZYfYbh`dYfW`bHJ[`Yg`Zcf`Vta`d`UW`gk`YYdYfg`
VY`ck`UbX`UV`cj`Y`&")`a`UbX`Zcf`hfi`W`a`ci`bhYX`gk`YYdYfg`" `H\Y`gUa`Y`
ghU`Y\c`XYf`Ugc`ei`Ygh]cbYX`k`\`m`]g`h\Y`W]hYf]cb`cb`U]f`dc`" `i`H]bh`Ya`]gg]cbg`
dYfZcfa`UbW`fHG*`E`Udd`]W]V`Y`cb`m`hc`h\Y`Yb[`]bYg`cZ`Vta`d`UW`gk`YYdYfg`
UbX`gdfYUXYfgZ`UbX`ghUHYX`h`Uh`]h`g\`ci`X`VY`Udd`]W]V`Y`Zcf`U`_]bX`cZ`a`cV]Y`
a`UW`]bYg`"

FY[UfX]b[HG) ž hY bchY]g XYg][bYX hc]bX]WUHY hY gYh cZ a cV]Y a UWX]bYfm hc k \]WX hY W]hYf]U fYei]fYa Ybh UfY Udd]WUVY hcž UbX Vmi XYZJi hž WUb VY]bWm XYX]b hY Vta di hU]cb cZ hY dYfWbhU[Yg" HAY fU]cbU'Y dfcj]XYg U XYH]YX YI d'UbU]cb cZ hY UddfUcUWX UbX \ Ug VYYb fYj]Yk YX hc WUf]Zm Ubm i b]bhYbXYX Ua V][i]h]Yg" HAY W]hYf]cb cb U]f dc"i hUbh Ya]gg]cbg dYfZcfa UbW fHG* E]g cb`mi Udd]WUVY hc Vta dUW] gk YYdYfg" HAY fU]cbU'Y Zcf h]g]g dfcj]YX]b hY Zc`ck]b[dUfU[fUd\ VY`ck " =hgdYWZ]Yg hY a]b]a i a fYei]fYa Ybh UbX Ug U \][\ Yf dYfWbhU[Y cZ Vta d`m]b[a UWX]bYfm]g YbVti fU[YX h fci [\ Ub 5k UfX 7f]hYf]cb f157 (ž hY]bWm g]cb cZ U bchY hc hY W]hYf]cb hU]dYfWbhU[Yg a UmVY UVY hc VY \][\ Yf]g bchXYYa YX bYWggUfm"

Hfi W a ci bhYX gk YYdYfg UfY bch UXXfYggYX k]h]b hY dfcdcgYX W]hYf]U]b 7\ UdHYf) " HAYfYZcfY]h]g bch bYWggUfm hc fYei]fY X]ZZYfYbh dYfWbhU[Yg Zcf Vta dUW] gk YYdYfg VY`ck UbX Uvcj Y &") a UbX Zcf Hfi W a ci bhYX gk YYdYfg" HAY W]hYf]U HG*]g bch Udd]WUVY hc U BFAA VYWVi gY hY YZZYW]j Y gYfj]W]ZY cZ U Vta dUW] gk YYdYf]g* hc + mYUfg f] cj Yfba Ybh cZ Gci hUa dhcbž &\$\$+ž fGk]mYfUbX : XYfU CZZ]W Zcf hY 9bj]fcb a Ybhž &\$%) ž H]g]g a i W `cb[Yf hUb hY Uj YfU[Y i gYZ]ZY gdUb cZ a UWX]bYfm i gYX Zcf hY dfcj]g]cb cZ [UfXYb]b[gYfj]W]g k]h hY]a d`]W]h]cb hU]h hY fYd`UW]a Ybhg fUHYg k] X]ZYf" : cf h]g fYUgcbž W]hYf]cb HG* cb U]f dc"i hUbh Ya]gg]cbg dYfZcfa UbW]g dfcdcgYX cb`mi Zcf hY Yb[]bYg cZ Vta dUW] gk YYdYfg UbX gdfYUXYfgž UbX bch U` a cV]Y a UWX]bYg"

7f]hYf]cb DfcdcgU`

7cfY W]hYf]U`	7ca dfY\ Ybg]j Y W]hYf]U`
HYWb]W] GdYVZ]W]h]cb`	
<p>HG* "A UWX]bY 9b[]bY 9I \ Ui gh 9a]gg]cbg`</p> <p><i>Note: this criterion is not applicable to compact sweepers and spreaders</i></p> <p>A cV]Y a UWX]bYfm i gYX]b W]ffm]b[`ci h hY gYfj]W a i gh VY]b Vta d`]UbW k]h hY Zc`ck]b[.</p> <p>%ž A YYhUh`YUghGHU[Y J`</p> <p>&ž A i gh VY nYfc YI \ Ui gh Ya]gg]cb`</p> <ul style="list-style-type: none"> - &\$%-) \$i cZ a UWX]bYfm a i gh VY nYfc YI \ Ui gh Ya]gg]cb` - &\$&\$. ') \$i cZ a UWX]bYfm a i gh VY nYfc YI \ Ui gh Ya]gg]cb` - &\$&% () \$i cZ a UWX]bYfm a i gh VY nYfc YI \ Ui gh Ya]gg]cb` - &\$&& .)) \$i cZ a UWX]bYfm a i gh VY nYfc YI \ Ui gh 	<p>HG* "A UWX]bY 9b[]bY 9I \ Ui gh 9a]gg]cbg`</p> <p><i>Note: this criterion is not applicable to compact sweepers and spreaders</i></p> <p>A cV]Y a UWX]bYfm i gYX]b W]ffm]b[`ci h hY gYfj]W a i gh VY]b Vta d`]UbW k]h hY Zc`ck]b[.</p> <p>%ž A YYhUh`YUghGHU[Y J`</p> <p>&ž A i gh VY nYfc YI \ Ui gh Ya]gg]cb`</p> <ul style="list-style-type: none"> - &\$%-) \$i cZ a UWX]bYfm a i gh VY nYfc YI \ Ui gh Ya]gg]cb` - &\$&\$. * \$i cZ a UWX]bYfm a i gh VY nYfc YI \ Ui gh Ya]gg]cb` - &\$&% . + \$i cZ a UWX]bYfm a i gh VY nYfc YI \ Ui gh Ya]gg]cb` - &\$&& . , \$i cZ a UWX]bYfm a i gh VY nYfc YI \ Ui gh

<p style="text-align: center;">Ya]gg]cb"</p> <p>J Yf]Z]W]h]cb.</p> <p>GUa Y` Ug` HG% hc[Yh\Yf` k]h` h\Y`]gh` cZ h\Y` a UWX]bYfm]bhYbXYX` hc` VY` i gYX` Zcf` dfcj]X]b[` h\Y` DGA` gYfj]WZ` h\Y]f` Wf]h]Z]W]h]Yg` cZ VtbZcfa]mz` UbX` Vtd]Yg` cZ h\Y` hmdY! Uddfcj U` Wf]h]Z]W]h]Y` cZ h\Y` dck Yf` i b]h` cZ h\Y` a UWX]bYfm"</p>	<p style="text-align: center;">Ya]gg]cb"</p> <p>J Yf]Z]W]h]cb.</p> <p>GUa Y` Ug` HG% hc[Yh\Yf` k]h` h\Y`]gh` cZ h\Y` a UWX]bYfm]bhYbXYX` hc` VY` i gYX` Zcf` dfcj]X]b[` h\Y` DGA` gYfj]WZ` h\Y]f` Wf]h]Z]W]h]Yg` cZ VtbZcfa]mz` UbX` Vtd]Yg` cZ h\Y` hmdY! Uddfcj U` Wf]h]Z]W]h]Y` cZ h\Y` dck Yf` i b]h` cZ h\Y` a UWX]bYfm"</p>
<p>5k UfX`7f]hYf]U`</p>	
<p>57` "'A UWX]bY`9b[]bY`9I \ Ui gh`9a]gg]cbg` <i>f(Same for core and comprehensive)</i></p> <p>Dc]bhg` k]` VY` dfcdcfh]cbUhY`m Uk UfXYX` hc` h\Y` hYbXYfYf` k]h` U` dfcdcfh]cb` cZ a UWX]bYfm ZYYhYI WYX]b[` h\Y` fYei]fYa Ybhg`cZ HG*"</p> <p>J Yf]Z]W]h]cb.</p> <p>GUa Y` Ug` HG*"</p>	
<p>7cbhfUWX]DYfZcfa UbW`7`Ui gY`"</p>	
<p>7D7`%"A UWX]bY`9b[]bY`9I \ Ui gh`9a]gg]cbg` <i>f(Same for core and comprehensive)</i></p> <p><i>Note: this criterion applies only if the replacement machinery satisfies operational needs as defined by the contracting authority and is agreed with the service provider.</i></p> <p>=Z` h\Y` a UWX]bYfm Ya d`cmYX` Zcf` h\Y` gYfj]W`]g` hc` VY` fYd`UWX` Xi f]b[` h\Y` VtbhfUWX] h\Y` fYd`UWX` a Ybh` a i gh` VY` a UWX]bYfm` k]h` nYfc` YI \ Ui gh` Ya]gg]cb` fk \ Yb` gi WX` dfcXi Wg` UfY` Uj U]`UV`Y`cb` h\Y` a Uf`_Yf`"</p> <p>H\Y` mYUf`m fYVtfXg` cb` h\Y` a UWX]bYfm` a U]bhYbUbW` UbX` fYd`UWX` a Ybh` gWXYXi `Y` a i gh` VY` a UXY` Uj U]`UV`Y` hc` h\Y` VtbhfUWX]b[` Ui h\cf]]mi Zcf` j Yf]Z]W]h]cb` di fdcgYg`" H\Y` VtbhfUWX]b[` Ui h\cf]]mia UmigYhifi `Yg` Zcf` dYbU`h]Yg` Zcf` bcb! Vta d`]UbW`"</p>	
<p>9I d`UbUhc]fmBchYg`</p> <ul style="list-style-type: none"> H\Y` fYd`UWX` a Ybh` cZ` a UWX]bYfm]g` fYVta a YbXYX` k \ Yb` h\Y` a UWX]bYfm]g` UddfcUWX]b[` h\Y` YbX` cZ]hg` i gYZ` `]ZY` cf` Xi Y` hc`]ffYdUfUV`Y` XUa U[`Y`" NYfc` YI \ Ui gh` Ya]gg]cbg` a UWX]bYfm W]b` fi b` k]h` ci h` Ubm X]fYW]i Yb[]bY` YI \ Ui gh` Ya]gg]cb`" 	

) "&"& 5]f`dc``i HUbh`Ya]gg]cbg`

F Uh]cbU`Y`

H\Y` YZZYVh]j Y` gYfj]W` `]ZY` cZ` U` Vta dUW` gk YYdYf`]g` *` hc` +` nYUfg`
f]` cj Yfba Ybh`cZ` Gci h\Ua dhcbz` &\$\$+Lz` fGk]mYf`UbX` : YXYfU` CZZ]W` Zcf` h\Y`
9bj]fcb`a Ybh`z` &\$\$%) Lz` UbX` h\Uh` cZ` U` gdfYUXYf` WUb` VY` Yj Yb` `cb[Yf`" H\]g`]g`
a i W` `cb[Yf` h\Ub` h\Y` Uj YfU[Y` i gYZ` ``]ZY` gdUb` cZ` a UWX`]bYfmi` gYX` Zcf` h\Y`
dfcj]g]cb` cZ` [UfXYb]b[`gYfj]W`g` k]h` h\Y`]a` d`]W]h]cb` h\Uh` h\Y` fYd`UW`a Ybhg`
fUhYg` k]` X]ZZYf`" H\ YfYZcfY` h\]g` W]hYf]cb`]g` Udd`]WV`Y` cb`mhc` h\Y` Yb[]bYg` cZ`
Vta dUW` gk YYdYfg` UbX` gdfYUXYfgz` UbX` gYY`_g` hc` a]b]a]nY` U]f` dc``i HUbh`
Ya]gg]cbg` Vm]gYh]b[`hYW`bc`c[m]VUgYX` fYei]fYa Ybhg` k \]W` XYa UbX` Ygg`cf`
nYfc` U]f` dc``i h]cb` Ya]gg]cbg` Zfca` Yb[]bYg` Vi]h`]bhc` h\ YgY` a UWX`]bYfmi`

5``a UWX`]bYg` k \]W` ZU` k]h`]b` h\Y` gVtdY` cZ` GHU[Y` J` z` a i gh` Vta d`mk]h` h\Y`
YI \Ui gh` Ya]gg]cb` `]a]hg` gdYWZ]YX`]b` h\Y` fY[i `Uh]cb` Ug` cZ` &\$\$%- " H\Y`
fY[i `Uh]cb` Udd`]Yg` h\Y` 9i `Ug` cZ` % >Ubi Ufmi &\$\$%+ UbX` a i gh` VY`]a` d` Ya YbhYX`
Ug` cZ` % >Ubi Ufmi &\$\$%- " H\Y` fY[i `Uh]cb` U`gc` \ Ug` U` &(! a cbh` hfUbg]h]cb` dYf]cX`
UbX` U` fYd`UW`a Ybh`Yb[]bY` dfcj]g]cb`"

H\Y` hfUbg]h]cb` dYf]cX` Vta` a YbWV`g` k]h` h\Y` YZZYVh]j Y` XUHY` Zcf` d`UW]b[`GHU[Y`
J` Yb[]bYg` cb` h\Y` a Uf`_Yh` UbX` Udd`]Yg` hc` U` Yb[]bY` W]hY[cf]Yg` 8i f]b[`h\]g`
dYf]cXz`]h`]g` dcgg]V`Y` hc` di hYb[]bYg` cZ` U` dfYj]ci` g` Ya]gg]cb` ghU[Y` cb` h\Y` 9i`
a Uf`_Yh` <ck Yj Yfz` h\Y` ma i gh` Vta d`mk]h` h\Y` dfYj]ci` g` Ya]gg]cb` ghU[Y` UbX`
a i gh` \Uj Y` VYYb` dfcXi W`X` Vmi h\Y` YZZYVh]j Y` XUHY` cZ` GHU[Y` J`"

5`gc` a UWX`]bYg` k]h` hfUbg]h]cb` Yb[]bYg` a i gh` \Uj Y` VYYb` dfcXi W`X` %`
a cbh`g` UZ]Yf` h\Y` YZZYVh]j Y` XUHY` cZ` GHU[Y` J` Uhi h\Y` `UhYgh` UbX` di h` cb` h\Y`
a Uf`_Yh` bc` `UhYf` h\Ub` *` a cbh`g` UZ]Yf` h\Uh` <ck Yj Yfz` Yb[]bYg` k]h` U` dck Yf`
fUb[Y` cZ`) *` _K` i d` hc` % \$` _K` UfY` YI Ya dhz` UbX` \Uj Y` Ub` YZZYVh]j Y` XUHY` cZ` %`
>Ubi Ufmi &\$\$&Z` Zc` `ck YX` Vmi h\Y` Udd`]WV`Y` &(! a cbh` hfUbg]h]cb` dYf]cX`" H\Y`
fYd`UW`a Ybh` Yb[]bY` dfcj]g]cb` k]` YbUV`Y` h\Y` fYd`UW`a Ybh` cZ` Vfc`_Yb`
Yb[]bYg` Vm]bYk` dfYj]ci` g! GHU[Y` Yb[]bYg` fY[" [" GHU[Y` ==6z` GHU[Y` =] Lz` UbX`
YZZYVh]j Y` m` Yb` \UbW`g` h\Y` dcgg]V`]]mi` cZ` fYd`UW]b[`U` Vfc`_Yb` Yb[]bY` Vmi
Ubch` Yf` Yb[]bY` a Y]h]b[`h\Y` gUa Y` W` UfUW]f]gh]Vg` hc` _YYd`]h`]b` i` gY`"

H\Y` W]hYf]cb` dfcdcgU` gYY`_g` hc` Ybgi fY` h\Uh` h\Y` a cgh` Ybj]fcb`a YbHU`mi
VYb][b` hYW`bc`c[]Yg` UfY` XYd`cmYX` Zcf` h\Y` XY`]j Yfmi` cZ` a UWX`]bYfmi` gYfj]W`g`"
<ck Yj Yfz`]h`]g` X]ZZ]W` `h` hc` gYh` h\Y` gUa Y` fYei]fYa Ybhg` Zcf` h\Y` VtbhfUW]b[`cZ`
gYfj]W`g` Ug` h`cgY` h\Uh` Udd`m` Zcf` dfcW` fYa Ybh`" H\]g` k ci` X` YbHU`]fYei]f]b[`h\Y`
gYfj]W` dfcj]XYf` hc` fYbYk` U` h\Y]f` Vta dUW` gk YYdYfg` UbX` gdfYUXYfg`
fk \]W` Vta d`mk]h` `ck Yf` d` UgY` ghUbXUfXg` k \]W` k ci` X` VY` j Yfmi` W]d]hU`
]bhYbg]j Y`" H\]g` g]hi Uh]cb`]g` bch` Ubh]V]dUhYX` hc` W` Ub[Y` ei]W` `mi []j Yb` h\Y`
dfcj]g]cbg`]b` h\Y` fY[i `Uh]cb`"

H\Y` YZZYVh]j Y` gYfj]W` `]ZY` cZ` U` Vta dUW` gk YYdYf`]g` *` hc` +` nYUfg`
f]` cj Yfba Ybh`cZ` Gci h\Ua dhcbz` &\$\$+Lz` fGk]mYf`UbX` : YXYfU` CZZ]W` Zcf` h\Y`
9bj]fcb`a Ybh`z` &\$\$%) L` H\]g` VtffYgdcbXg` hc` fYd`UW]b[`cb` Uj YfU[Y` Yj Yfmi` mYUf`
`Ygg` h\Ub` &\$i` `cZ` h\Y` gk YYdYfg`" Bc`]bZcfa Uh]cb` cb` h\Y` Uj YfU[Y` g` UfY` cZ`
Vta dUW` gk YYdYfg` UbX` h\Y]f` Yb[]bY` hYW`bc`c[]Yg`]b` W` ffYbh` ZYYhg`]g`
Uj U]UV`Y` Uhi h\Y` 9i fcdYUb` `Yj Y`" <ck Yj Yfz`]h`]g` YI dYW`YX` h\Uh` gYfj]W`

dfcj]XYfg' k]'' UfYUXm VY' UV'Y' hc' [i UfUbhY' ZYYhg' k \]W' Vta d'm k]h' h'Y' X]ZYZfYbh'fY[i 'Uh]cbg'Udd']WV'Y'hc' Vta dUVh'gk YYdYfg''

7cbgYei Ybh'mz' h'Y' h'YW'b]W' gdYVZ]W]h]cb' Uh' h'Y' VefY' 'Yj' Y' fYZYVhg' h'Y' Yl]gh]b[' ghUH' cZ d'Um j]g! U! j]g' fY[i 'Uh]cb' UbX']bXi gh'fmi dfUW]W' Zcf' gY'Z' dfcdY''YX' fVta dUVW' gk YYdYfg' k]h' 'ck' bc]gY' Vta a YfVU' X]YgY' Yb[]bYg' f] Yfa Ub' 6' i Y' 5b[Y'z' &\$% U' " " =h']g' dfcdcgYX' h' Uh' U' gk YYdYfg' Vta d'm k]h' GHU[Y' =J' hc' dfYj Ybh'h'Y' XYd'cma Ybh'cZ' bcb! Vta d'U]bh'gk YYdYfg''

H'Y' BFAA' fY[i 'Uh]cb' k]'' fYgi' h']b' Ub']bWYUgY']b' h'Y' bi' a VYf' cZ' gk YYdYfg' h' Uh' UfY' Vta d']Ubh' k]h' GHU[Y' J' cf' 9i' fc' * #J = Ya]gg]cb'']a]hg'' 5' a]b]a i a' dYfWbhU[Y' cZ' ' \$i']g' dfcdcgYX' Uh' h'Y' VefY' 'Yj' Y' UbX') \$i' Uh' h'Y' Vta dfY\Ybg]j Y' 'Yj' Y'' H'Y' W' ffYbh' g\UfY' cZ' Vta dUVh' gk YYdYfg' WdUV'Y' cZ' a Y'h]b[' GHU[Y' J' cf' 9i' fc' * #J = Ya]gg]cb'']a]hg']b' U' gYfj]W' dfcj]XYffg' gk YYdYf' ZYYh']g' i b_bck b'' <ck Yj Yfz' Ug' h'Y' dfcdcfh]cb' cZ' gk YYdYfg' Vta d'm]b[' k]h' GHU[Y' J' cf' 9i' fc' * #J = Ya]gg]cb'']a]hg' k]'']bWYUgY' bUhi' fU'm' c] Yf' h]a Yz' U' dYfWbhU[Y' nYUf'm]bWYUgY' cZ' %\$i']g' dfcdcgYX' Ug' U' VUg]g' hc' Ybgi' fY' h' Uh' h'Y' Ua V]h]cb' 'Yj' Y']g' a U]bhU]bYX''

H'Y' fY']g' U' dcg]h]j Y' hfYbX']b' h'Y' XYj Y' cda Ybh' UbX' XYd'cma Ybh' cZ' VUhhYfm' dck YfYX' Vta dUVh' gk YYdYfg' f=9A' A U[Un]bYz' &\$% lz' Vi' h' gYfj]W' dfcj]XYfg' a Um' bch' VY' UV'Y' hc' [i UfUbhY' h' Uh' U' gk YYdYf' ZYYh' Vta d'cgYX' cb'm' cZ' VUhhYfm' dck YfYX' Vta dUVh' gk YYdYfg'' H'Y' fY' ZcfY' Uh' h'Y' VefY' 'Yj' Y'z']h']g' gi [[YghYX' h' Uh' &\$i' cZ' h'Y' Vta dUVh' gk YYdYfg' VY' VUhhYfm' dck YfYX' fUg' h'Y' h'Y' W' bc' c[m']g' UfYUXm Uj U] UV'Y' UbX']b' i gYlz' UbX') \$i' Uh' h'Y' Vta dfY\Ybg]j Y' 'Yj' Y'' =h']g' Ubh]WdUhYX' h' Uh' gYfj]W' dfcj]XYfg' k]'' dfc[fYgg' Zfca' cZYZf]b[' Vta dUVh' gk YYdYfg' Vta d'm]b[' k]h' GHU[Y' J' cf' 9i' fc' * #J = Ya]gg]cb'']a]hg' hc' h'cgY' h' Uh' UfY' VUhhYfm' dck YfYX'' H'Y' fY' ZcfYz' U' dYfWbhU[Y' nYUf'm]bWYUgY' cZ') i']g' dfcdcgYX' Ug' U' VUg]g' hc' dfca' chY' h'Y' h'Y' W' bc' c[m' UbX' Xf]j Y']hg' XYd'cma Ybh''

5b' Uk UfX' W]hYf]cb']g' dfcdcgYX' hc' fYk UfX' gYfj]W' dfcj]XYfg' WdUV'Y' cZ' cZYZf]b[' U' gYfj]W' ZYYh' k]h' U' \] [\ Yf' dfcdcfh]cb' cZ' VUhhYfm' Y' YWf]WVta dUVh' gk YYdYfg'' 5h' h'Y' Vta dfY\Ybg]j Y' 'Yj' Y'z' gUa Y' gWbUf]c']g' a U]bhU]bYX' Vi' h' k]h' U' fYei]fYa Ybh' Zcf' U' \] [\ Yf' dfcdcfh]cb' cZ' VUhhYfm' Y' YWf]WV dck Yf' Vta dUVh' gk YYdYfg''

7f]hYf]cb' DfcdcgU''

7cfY' W]hYf]U'	7ca' dfY\Ybg]j Y' W]hYf]U'
HYW'b]W' gdYVZ]W]h]cb'	
<p>HG+'' 5]f' dc''i HUbh' Ya]gg]cbg' dYfZcfa UbW''</p> <p><i>Note: this criterion is only applicable to compact sweepers and spreaders</i></p> <p>H'Y' U]f' dc''i HUbh' Ya]gg]cbg' dYfZcfa UbW' cZ' h'Y' Yb[]bY' cZ' h'Y' ZYYh' cZ' gk YYdYfg' UbX' gdfYUXYfg' i' gYX']b' W'ffm]b[' ci' h' h'Y' gYfj]W' a' i' gh' VY']b' Vta d']UbW' k]h' h'Y' Zc' 'ck]b[.''</p>	<p>HG+'' 5]f' dc''i HUbh' Ya]gg]cbg' dYfZcfa UbW''</p> <p><i>Note: this criterion is only applicable to compact sweepers and spreaders</i></p> <p>H'Y' U]f' dc''i HUbh' Ya]gg]cbg' dYfZcfa UbW' cZ' h'Y' Yb[]bY' cZ' h'Y' ZYYh' cZ' Vta dUVh' gk YYdYfg' i' gYX']b' W'ffm]b[' ci' h' h'Y' gYfj]W' a' i' gh' VY']b'</p>

<p>%Ł A i gh`VY`Uh`YUgh`GHU[Y`=J`</p> <p>&Ł A i gh`VY`GHU[Y`J`cf`9i`fc`*`#J`=</p> <ul style="list-style-type: none"> - &\$%-`) \$i` cZ` gk`YYdYfg` UbX` gdfYUXYfg` a i gh` a`YYh`GHU[Y`J`cf`9i`fc`*`#J`= - &\$&\$` (\$i` cZ` gk`YYdYfg` UbX` gdfYUXYfg` a i gh` a`YYh`GHU[Y`J`cf`9i`fc`*`#J`= - &\$&%`) \$i` cZ` gk`YYdYfg` UbX` gdfYUXYfg` a i gh` a`YYh`GHU[Y`J`cf`9i`fc`*`#J`= - &\$&%` * \$i` cZ` gk`YYdYfg` UbX` gdfYUXYfg` a i gh` a`YYh`GHU[Y`J`cf`9i`fc`*`#J`= <p>' Ł A i gh`VY`nYfc`YI` \Ui`gh`Ya`]gg]cb`</p> <ul style="list-style-type: none"> - &\$%-` &\$i` cZ` gk`YYdYfg` UbX` gdfYUXYfg` a i gh` VY` nYfc` YI` \Ui`gh`Ya`]gg]cb` - &\$&\$` &) i` cZ` gk`YYdYfg` UbX` gdfYUXYfg` a i gh` VY` nYfc` YI` \Ui`gh`Ya`]gg]cb` - &\$&%` ' \$i` cZ` gk`YYdYfg` UbX` gdfYUXYfg` a i gh` VY` nYfc` YI` \Ui`gh`Ya`]gg]cb` - &\$&&` ') i` cZ` gk`YYdYfg` UbX` gdfYUXYfg` a i gh` VY` nYfc` YI` \Ui`gh`Ya`]gg]cb` <p>H\Y`h]Yf`Udd`]WV`Y`k`]` VŁffYgdcbX`hc`h\Y`nYUf`h\Uh`h\Y`W`Zc`hYbXYf`]g`Ui`bW`YX`"</p> <p>K \YfY`gk`YYdYfg` UbX` gdfYUXYfg` UfY` bch`Wfh]ZYX`Ug`a`YYh]b[`GHU[Y`=J`cf`\`][\Yfz`Vi`h`hYV`b]W`UzNf!`hfYUha`YbH` \Ug`UW`]Yj`YX`h\Y`gUa`Y`ghUbxUfXz`h\]g`g\ci`X`VY`XcW`a`YbhYX`]b`h\Y`hYbXYf`"</p> <p>J Yf]Z]W]h]cb.</p> <p>GUa`Y`Ug`HG%`hc`[Yh`Yf`k`]h`h\Y`]gh`cZ`h\Y`a`UW`]bYfm`]bhYbXYX`hc`VY`i`gYX`Zcf`dfcj`]X]b[`h\Y`DGA`gYfj`]Wz`h\Y]f`Wfh]Z]W]hYg`cZ`VŁbZcfa`]mz`UbX`VŁd]Yg`cZ`h\Y`hmdY!`Uddfcj`U`Wfh]Z]W]hY`cZ`h\Y`dck`Yf`i`b]h`cZ`h\Y`a`UW`]bYfm`':`cf`h\cgY`j`Y\]WYg` \Uj`]b[`UW`]Yj`YX`Uvcj`Y!`a`Ybh]cbYX`ghUbxUfX`Zc`ck`]b[`U`hYV`b]W`i`d[fUXY`h\Y`a`YUgi`fYg`a`i`gh`VY`XcW`a`YbhYX`UbX`]bW`XYX`]b`h\Y`hYbXYfz`UbX`h\]g`a`i`gh`VY`j`Yf]ZYX`Vmi`Ub`]bXYdYbXYbhi`h\]fX`dUfmi`h\Uh`a`YYhg`h\Y`fYei`]fYa`Ybhg`cZ`9B!</p>	<p>VŁa`d`]UbW`k`]h`h\Y`Zc`ck`]b[`</p> <p>%Ł A i gh`VY`Uh`YUgh`GHU[Y`=J`</p> <p>&Ł A i gh`VY`GHU[Y`J`cf`9i`fc`*`#J`=</p> <ul style="list-style-type: none"> ' Ł &\$%-`) \$i` cZ` gk`YYdYfg` UbX` gdfYUXYfg` a i gh` a`YYh`GHU[Y`J`cf`9i`fc`*`#J`= (Ł &\$&\$` * \$i` cZ` gk`YYdYfg` UbX` gdfYUXYfg` a i gh` a`YYh`GHU[Y`J`cf`9i`fc`*`#J`=) Ł &\$&%` + \$i` cZ` gk`YYdYfg` UbX` gdfYUXYfg` a i gh` a`YYh`GHU[Y`J`cf`9i`fc`*`#J`= * Ł &\$&&` , \$i` cZ` gk`YYdYfg` UbX` gdfYUXYfg` a i gh` a`YYh`GHU[Y`J`cf`9i`fc`*`#J`= + Ł , Ł A i gh`VY`nYfc`YI` \Ui`gh`Ya`]gg]cb` - Ł &\$%-`) \$i` cZ` gk`YYdYfg` UbX` gdfYUXYfg` a i gh`VY`nYfc`YI` \Ui`gh`Ya`]gg]cb` %Ł&&\$` * \$i` cZ` gk`YYdYfg` UbX` gdfYUXYfg` a i gh`VY`nYfc`YI` \Ui`gh`Ya`]gg]cb` %Ł&&%` + \$i` cZ` gk`YYdYfg` UbX` gdfYUXYfg` a i gh`VY`nYfc`YI` \Ui`gh`Ya`]gg]cb` %Ł&&&` , \$i` cZ` gk`YYdYfg` UbX` gdfYUXYfg` a i gh`VY`nYfc`YI` \Ui`gh`Ya`]gg]cb` <p>K \YfY`gk`YYdYfg` UbX` gdfYUXYfg` UfY` bch`Wfh]ZYX`Ug`a`YYh]b[`GHU[Y`=J`cf`\`][\Yfz`Vi`h`hYV`b]W`UzNf!`hfYUha`YbH` \Ug`UW`]Yj`YX`h\Y`gUa`Y`ghUbxUfXz`h\]g`g\ci`X`VY`XcW`a`YbhYX`]b`h\Y`hYbXYf`"</p> <p>J Yf]Z]W]h]cb.</p> <p>GUa`Y`Ug`HG%`hc`[Yh`Yf`k`]h`h\Y`]gh`cZ`h\Y`a`UW`]bYfm`]bhYbXYX`hc`VY`i`gYX`Zcf`dfcj`]X]b[`h\Y`DGA`gYfj`]Wz`h\Y]f`Wfh]Z]W]hYg`cZ`VŁbZcfa`]mz`UbX`VŁd]Yg`cZ`h\Y`hmdY!`Uddfcj`U`Wfh]Z]W]hY`cZ`h\Y`dck`Yf`i`b]h`cZ`h\Y`a`UW`]bYfm`'</p>
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=GC#=97 '%+\$&)"

Notes:

*Engines complying with a prior emission stage to Stage V, in accordance with the exemptions and transitional provisions set out in Article 10(7) of Directive 97/68/EC, Articles 34(7), 34(8) or 58(5) to 58(11) of Regulation (EU) 2016/1628, and Articles 11(4) and 14 of Commission Delegated Regulation (EU) 2015/96, or Article 13(3) to 13(6) of Commission Delegated Regulation (EU) 2018/985, are allowed to be installed, if they are retrofitted with DPF system certified according one of the following certificates and if they have a gravimetric separation efficiency of at least 90%:

- Anlage XXVII Nummer 3 StVZO
- UNECE Regulation R 132, reduction stage 01, Class I or II
- FAD e.V. Siegel (Status February 2015 or newer)
- VERT filter list (Status September 2016 or newer)
- BAFU filter list

5k UfX`W]hYf]U`

57 ("`=a dfcj YX`U]f`dc``i HUbh`Ya]gg]cbg`dYfZcfa UbW`

f(Same for core and comprehensive)

Dc]bhg`k]`` VY` Uk UfXYX`]b` dfcdcfh]cb` hc` YUWX` dYfWbhU[Y`]a dfcj Ya Ybh` i dcb` h`Y` a]b]a i a` h`YV`b]W`gdYVWZ]W]h]cb`fYei]fYX`]b`HG+""""

J Yf]Z]W]h]cb.`

GUa Y`Ug`HG+""

) "&" 8]ghf]Vi h]cb`dYfZcfa UbW`cZ`gdfYUXYfg`

F Uh]cbU`Y`

H`Y` fUh]cbU`k ci `X` VY` h`Y` gUa Y` Ug` Zcf` h`Y` Yei]da Ybh`W]hYf]cb` dfcdcgU` fGYV]cb`) "%)" E" ;]j Yb` h`Uh` h`Y` 9i fcdYUb` gh`UbXUfX`]g` bch` Uddfcj YX` mYh` UbX` h`Uh` h`YfY` UfY` j Yfm` ZYk` `UVcfUhc]Yg` Uj U]`UV`YZ` h`Y` W]hYf]cb`]g` dfcdcgYX` hc` VY` Ub` Uk UfX` W]hYf]cb` hc` fYk` UfX` h`cgY` ZYYhg`k \cgY`gdfYUXYfg`W]b`XYa`cbghf`Uh`h`Y`f`X]ghf]Vi h]cb`dYfZcfa UbW`

7f]hYf]U`dfcdcgU`

7cfY`W]hYf]U`	7ca`dfY`Ybg]j`Y`W]hYf]U`
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5k UfX`7f]hYf]U`

57) ""8]ghf]Vi h]cb`dYfZcfa UbW`cZ`gdfYUXYfg`

Dc]bhg`k]`` VY` Uk UfXYX` hc` h`cgY` hYbXYfg` cZYf]b[`U` gYfj]W` ZYYh` dfcdcfh]cbU`m` hc` h`Y` g\UfY`cZ`gdfYUXYfg`h`Uh`UfY`ei U`]ZYX`UW]fX]b[`hc`h`Y`9B`%)`-`+!`&""

J Yf]Z]W]h]cb.`

H`Y` hYbXYfYf`a`i`gh`dfYgYbh`h`Y``]gh`cZ`h`Y``j`Y`]WYg`cZ`h`Y`gYfj`]W`ZYYh`UbX`h`Y`f`hYgh`fYdcfhg`UW]fX]b[`hc`9B`%)`-`+!`&]ggi`YX`Vm`Ub`]bXYdYbXYbh`UVcfUhc]f`

) "&"(K UHYf VŁbgi a dh]cb fZcf VŁa dUW]gk YYdYfg h Uhi gY k UHYf Zcf Xi ghgi ddfYgg]cbŁ

FYZf hc GYW]cb * "&"("

) "&") 6UHYfmei U]hmi

F UH]cbU Y

H\Y fUH]cbU Y dfYgYbhYX Xi f]b[5<K ; %]g dfcj]XYX]b gYW]cb) "%&" GHU_Y\c XYfg gi ddcfhYX h]g W]hYf]cb Ug]h k Ug VŁbg]XYfYX]a dcfhUbh Zfca Ub Ybj]fcb a YbhU j]Yk dc]bh 5gcž a YYh]b h\Y W]hYf]U g\ci X bch dfYgYbh Ubmia Ucf \i fX Yg Ug h\Y a Ucf]hmicZ a UW]bYfmi dfcXi Wfg#a Ubi ZUW] fYfg i gY VUH]f]Yg Zfca a U]b]bhYfbUH]cbU VUH]fmi a Ubi ZUW] fYfgž k \]W UfY UV Y hc gUH]gzm h\Y fYei]fYa Ybhg H\Ymi dc]bhYX ci h h Uhi h YfY a][\h VY VŁghg UggcV UHYX k]h\ dfcj]X]b hYgh fYdcfhg k \]W a][\h VY dUggYX cb]b h\Y VŁgh cZ h\Y hYbXYf Vi h h YgY W]gYg g\ci X#k ci X bch fYdfYgYbh h\Y VŁa a cb dfUW]W Ug h\Y VUH]fmi a Ubi ZUW] fYfg g\ci X]XYU m dfcj]XY hYghYX# Wfh]Z]YX VUH]f]Yg hc h\Y a UW]bYfmi a Ubi ZUW] fYf

=h k Ug gi [[YghYX h Uhi h\Y W]hYf]U VŁi X VY VŁbg]XYfYX cb mi Uhi h\Y VŁa dfY\Ybg] Y Yj Y Ug]h a][\h VY YUg]Yf hc]a dYa Ybh k \Yb di fW Ug]b a UW]bYfmi Vi h a cfY X]Z]W h k \Yb di fW Ug]b gYfj]Wg H\Y W]hYf]cb]g UWŁfX]b ma cX]Z]YX gc]h]g cb m Uhi h\Y VŁa dfY\Ybg] Y Yj Y

7f]hYf]cb Dfc dcgU

7cfY W]hYf]U	7ca dfY\ Ybg]j Y W]hYf]U
HYW b]W GdYV]Z]W]cb	
	<p>HG, "A UW]bYfmi VUH]fmi fYW Uf[YUV]]hmi UbX ei U]hmi</p> <p>5 h\Y a UW]bYg a i gh VY Yei]ddYX k]h VUH]fmi gmghYa g VŁa d]Ubh k]h h\Y hYW b]W gdYV]Z]W]cb HG</p> <p>J Yf]Z]W]cb.</p> <p>GUa Y Ug HG hc [Yh Yf k]h h\Y]gh UbX hYW b]W XUHU g\YYh cZ h\Y a UW]bYfmi ZYYh hc VY Ya d cmYX Zcf h\Y gYfj]W dfcj]g]cb</p>
5k UfX W]hYf]U	
	<p>57* "6UHYfmi\ YUj mia YHU VŁbhYbh</p> <p>Dc]bhg a i gh VY Uk UfXYX hc hYbXYfg cZYf]b U gYfj]W ZYYh dfcdfh]cbU mi hc h\Y g\UfY cZ a UW]bYg h Uhi UfY Yei]ddYX k]h VUH]fmi gmghYa g VŁa d]Ubh k]h 57 & cb a UW]bY</p>

	<p>VUHfYfm\YUj ma YHJ`VebWbhfUjcb`</p> <p>J Yf]Z]W]h]cb.</p> <p>GUa Y` Ug` 57&` hc[Yh Yf` k]h\` h\Y`]gh` UbX` hYVb]W` XUH` g\YYh` cZ` h\Y` a` UWX`]bYfm` ZYYh` hc` VY` Ya` d` cmYX` Zcf` h\Y` gYfj`]W` dfcj`]g]cb`</p>
--	---

) "&"* Bc]gY`9a]gg]cb`!`7f]hYf]cb`k]h\ XfUk b`

F U]h]cbU`Y`

H\YfY`]g` U` dchYbh]U` Zcf` dfcj`]X]b[` U` DGA` gYfj`]W` k]h\` a` UWX`]bYfm` \Uj`]b[` a` i` V\` `ck` Yf` bc]gY` `Yj` Y`g` h\Ub` h\Y` `]a`]hg` gdYV]Z]YX`]b` h\Y` Bc]gY` FY[i` `Uh]cb` VYW]i` gY` dfcXi` V]g` k]h\` h\]g` ZYUhi` fY` UfY` U`fYUXm` Uj` U]`UV`Y` fgYY` h\Y` DfY`]a`]bUfmi` FYdcfh` UbX` h\Y` Z]fgh` hYVb]W` fYdcfh` <ck` Yj` Yfz` h\Y` W]hYf]cb`]g` k]h\ XfUk` b` Zc` `ck`]b[` h\Y` fYUgcb]b[` Ug` ci` h]bYX`]b` gYV]h]cb`) "%"*` cZ` h\Y` gYVebX` hYVb]W` fYdcfh` H\Y` k]h\ XfUk` U`]g` fYH]bYX`]b` h\Y` h\]fX` hYVb]W` fYdcfh`

) "&" + A UWX`]bYfm`@` Vf]W]bh`

F U]h]cbU`Y`

H\YgY` W]hYf]U` Udd`mi` cb`mi`]Z` h\Y` gYfj`]W` dfcj`]XYf` WU]a` g` ck` bYfg\`]d` cZ` h\Y` `i` Vf]W]bhgž` cf` Ya` d` cmg` h\Y` `i` Vf]W]bhg`]b` a` UWX`]bYfm` i` gYX` Zcf` h\Y` YI` YW` h]cb` cZ` h\Y` VebhfUW]YX` gYfj`]W`

: c` `ck`]b[` 5<K` ;` %ž`]h\` \Ug` VYYb` i` dXUH]X` hc` fYZYV]h` h\Y` fYei`]fYa` Ybhg` cZ` h\Y` 9I` `9V` UY` Zcf` @` Vf]W]bhg` k]h\` h\Y` fYZfa` i` `Uh]cb` cZ` h\Y` W]hYf]cb` UbX` h\Y` XY` Yh]cb` cZ` h\Y` Uk` UfX` W]hYf]cb`

7f]hYf]cb` DfcdcgU`

7cfY` W]hYf]U`	7ca` dfY\` Ybg]j` Y` W]hYf]U`
7cbhfUW]DYfZcfa` UbW` 7` Ui` gY`	
<p>7D7&"` A UWX`]bYfm`@` Vf]W]bh`</p> <p><i>f(Same for core and comprehensive)</i></p> <p>H\Y` VebhfUW]cf` a` i` gh` Ybgi` fY` h\` Uh` h\Y` \mXfUi` `]WZi`]Xgž` [` YUf` c]` gž` V\` U]bgUk` `c]` gž` h` c!` ghfc` _Y` c]` g]` UbX` [` fYUgYg` i` gYX`]b` DGA` `a` UWX`]bYfm` Ya` d` cmYX` Zcf` h\Y` gYfj`]W` UfY` Veb` a` d` U]bh` k]h\` HG(` cb` a` UWX`]bYfm` i` Vf]W]bhg`</p> <p>H\Y` VebhfUW]cf` k`]` _YYd` fYVebfXg` k` \]W` `g\` U` VY` `a` UXY` Uj` U]`UV`Y` hc` h\Y` VebhfUW]b[` Ui` h\cf]m` H\Y` VebhfUW]b[` Ui` h\cf]mia` UmigYhfi` `Yg` Zcf` dYbU` h]Yg` Zcf` bcb!` Veb` a` d`]UbW`</p>	

..
: cf' Zci fl'ghfc_Y' 'i Vf]W]b]hgž' i b'Ygg' h\Y' a Ubi ZUWi fYf' cZ h\Y' a UW]bYfmi fYVta a YbXg'
Ubch\Yf' hmdY' cZ 'i Vf]W]b]hž' h\Y' VtbfUW]cf' a i gh' fYd'UW' h\Y' 'i Vf]W]b]hg' i gYX']b' DGA'
a UW]bYfmi Ya d'cmYX' Zcf' h\Y' gYfj]W' k]h' h\Uh' Vta d'U]bh' k]h' HG(' cb' a UW]bYfmi
'i Vf]W]b]hg' Zcf' Zci fl'ghfc_Y'Yb[]bYg''''
H\Y' VtbfUW]cf' k]'' _YYd' fYVtFXg' k \]W' a i gh' VY' a UXY' Uj U]'UV'Y' hc' h\Y' VtbfUW]b['
Ui h\cf]hm' H\Y' VtbfUW]b['Ui h\cf]hma UmigYh'fi 'Yg' Zcf' dYbU'h]Yg' Zcf' bcb! Vta d']UbW''''

) "&", A UW]bYfmiA UHf]U'g! '7f]hYf]cb'k]h XfUk b'

F U]cbU'Y''

GYY) "%%"\$''

) " 7cgh'Vtbg]XYfU]cbg'

H\YfY']g' \UfX'm Ubm]bZcfa U]cb' cb' h\Y' ']ZY' VhWY' Vtgh' fl@77' cZ a UW]bYfmi''
<ck Yj Yfž' [YbYfU'mž' g]a]Uf' hc' j Y\]W]gž']b' cfXYf' hc' Ygh]a UH' h\Y' hc]U' '@77ž'
cdYfU]b[' UbX' X]gdcgU' Vtghg' g\ci 'X' VY' Vtbg]XYfYX']b' UXX]h]cb' hc' h\Y'
di fW U]g]b[' df]W'' C h\Yf' Vtghg' h\Uh' k]'' VY']bW ffYX']b' h\Y' cdYfU]b[' d\UgY'
cZ h\Y' a UW]bYfmi fYU]b[' hc' Z Y' cf' YbYf[m' Vtbg] a dh]cbž' a U]bhYbUbWž'
UbX' fYd'UW]a Ybh' fgi Vgh]h' h]cb' cZ Yb[]bY' c] ' UbX' gdUfY' dUfhgk' Vtghg' U'gc'
\Uj Y' hc' VY' Vtbg]XYfYX''''

5Wcgg' U'' hmdYg' cZ Yb[]bYgž' VUthYfm Y'YVf]W cdYfU]hYX' dfcXi Vtg' \Uj Y'
g][b]Z]W]bh'm' Ygg' Yl \Ui gh' UbX' bc]gY' Ya]gg]cbg'' <ck Yj Yfž' h\Ym' UfY' a cfY'
Yl dYbg]j Y' hc' Vi m' Bc' gdYV]Z]W XU]U' k Ug' Zci bX' cb' h\Y' @77' cZ DGA'
a UW]bYfmi hc' YbUV'Y' U' d'fc'cdcgU' hc' VY' a UXY' VUgYX' cb' h\]g' W]hYf]cb''

5' a U'cf' VtW]fb' cZ Ub']bXi gh'fm]g]U' \c'XYf']g' h\Uh' h\Y']bj Ygha Ybh' Vtgh' cZ
VUthYfm Y'YVf]W a UW]bYfmi]g' hc' c' hc' h\YfY' h]a Yg' \][\Yf' h\Ub' h\Uh' cZ
Yei]j U'Ybh' dYhfc'! dck YfYX' a UW]bYž' UbX' h\Uh']h' k ci 'X' VY']a d'cgg]V'Y' Zcf'
Vi m'Yfg' hc' fYVtj Yf' h\]g' c] Yf' h\Y' ']ZY]h]a Y' cZ h\Y' d'fcXi W' =h' k Ug' U'gc' gh]hYX'
h\Uh' VUthYf]Yg' \Uj Y' X]g]U]j Ub]U] Yg' Xi Y' hc' h\Y]f']a]hYX' dck Yf' fUb[Y' UbX'
W]dUW]mi]b' hYfa g' cZ g]nY' UbX' Vtghgž' Ug' h\Ym' fYei]fY' U' gh]h]cbU]fm dck Yf'
gci fW' Zcf' fYV]Uf[]b['' H\Y' gYbg]h]]hm' cZ VUthYf]Yg' hc' Yl hfYa Y' W]a UH' UbX'
hYa dYfU]h' fY' VtX]h]cbg' k Ug' U'gc' j]Yk YX' Ug' U' Vtbg]h]U]bh' hc' fYVta a YbX]b['
h\Ya ''

: fca' Ub' 9l' ; DD' dYfgdYV]j Yž' U' bi a VYf' cZ a Ubi ZUWi fYfg' \Uj Y' 'Ui bW]YX'
a UW]bYfmi W]dUV'Y' cZ a YH]b[' h\Y' fYei]fYa Ybhg' cZ d'fcZYgg]cbU' i gYfg']b'
Yl hfYa Y' W]a UH' UbX' k YU]h' Yf' VtX]h]cbg'' H\YgY' h'W]bc'c[]Yg' UfY' Yj c]]b['
UbX' UfY' Ubh]V]dU]hYX' hc' UXXfYgg' k Y][\h' VU'UbW']ggi Yg' Ug' XYd]W]YX' Vmi
Yl Ua d'Yg' k \]W' UfY' W ffYbh'm' VY]b[' a Uf_YhYX' f'k'cfh'k YY_ž' &\$\$* ' 5'gc'
VUthYfm Y'YVf]W dck YfYX' a UW]bYfmi Vtbg] a Y' Ygg' YbYf[m' h\Ub' Vta Vi gh]cb'
Yb[]bY' a UW]bYfmi f]l' '7ca a]gg]cb' È' 8; '9BHF ž' &\$(' h\]g']g' Yl dYV]YX' hc'
hfUb]g' UH']bhc' 'ck Yf' c] YfU'']ZY' VhWY' Vtghž' Zcf' Yl Ua d'Y' VUthYfm] dck YfYX'
f]XY! cb' a ck Yfg' \Uj Y' U' ck Yf' Vtgh' cZ ck bYfg' \d' Vta dUfYX' k]h' h\Y' X]YgY'!

Z Y`YX` a ck Yfg`cj Yf` U`dfc`YVWYX` gYfj]W` `]ZY` cZ` gYj Yb` mYUfg` f7\Uf]Z` A "ž`
&\$% Ł" H\]g`]g` VčbW` g]cb`]g` gi ddcfhYX` Vmi]bZcfa Uh]cb` Uj U]UV`Y` Zfca` h`Y`
k YVg]h`cZ` U`a Ubi ZUVi fYf`k \]W` Uff]j YX` Uh`h`Y` gUa Y` VčbW` g]cbž` bUa Y`m`
h\Uh` dfcZYgg]cbU` VčfX`Ygg` a UVW]bYfmi UfY` VXYUdYf` hc` fi b` h`Ub` dYhfc`
dck YfYX`cbYg` fVUgYX`cb` Ubbi U`cdYfUh]b[` Včgh`W]W`Uh]cbŁ` fF`cVYfh`6cgW`
; a V<Ł" @Ugh`ž` U` Zcfk UfX` Vča a]ha Ybhi Vmi di V`]W`Ui h`cf]h]Yg` Ufh]W`UH`YX`
h`fci [\` di V`]W` VčbhfUVWg` h`Uh` dfca chY` UXj UbWYX` h`VWbc`c[]Yg` k ci `X`
]bWVbh]j]gY`a Ubi ZUVi fYfg`UbX`di g` h`Y`a Uf`_Yh`hc`fYgdcbX`"

* 8fUZhDfcdcgYX'9l ; DD'W]hYf]U'Zcf'j Y\]WYg'UbX' gYfj]W'ZYYhg'

* '%J Y\]WYg'Zcf'7`YUbb]b['UbX'; UfXYb]b['UW]j]h]Yg'

DfcWfYa Ybhczj Y\]WYg'k]h'fYXi WX'Ybj]fcba YbhU']a dUW'

H\Y'gVtdY'cZ'hYgY'W]hYf]U'Vta df]gYg.'

! <YUj mi Xi lmi j Y\]WYg'z' a YUbb]b['j Y\]WYg' cZ' W]hY[cfm B&' UbX' B'z' Ug' XYZ]bYX'Vm8]fYW]j Y'&\$+\$+*(* ,

! GdYW]U' j Y\]WYg' UbX' chYf' gdYW]U' di fdcgYg' j Y\]WYg' Ug' XYZ]bYX' Vm8]fYW]j Y'&\$+\$+*(* .

- GhfYYh'WYUbb]b['j Y\]WYg'fhi W!a ci bhYX'gk YYdYfg'

H\Y'gVtdY'YI W XYg'Vta dUW'gk YYdYfg' UbX' gdfYUXYfg' h Uh UfY'Vtbg]XYfYX' bcb!fcUX'a cV]Y'a UW]bYfmiUbX'hYfYZcfY'Vtj YfYX'VmigYW]cb') "'5Wtfx]b[' hc'hY'a Ubi ZUW]i fYfg'z'hYfY'UfY' bch j Y\]W]!a ci bhYX' gdfYUXYfg. 'hYm UfY' U'Vta dUW]a cXY'g'h Uh'UfY'Vtbg]XYfYX' bcbEfcUX'a cV]Y'a UW]bYfmi'

* '%%%% Gi a a UfmcZ'ghU_Y\c`XYfg'Vta a Ybhg'Zfca ' 5<K ; &

=h'k Ug'gi [[YghYX'h Uh'gdfYUXYfg'g\ci `X'VY'Vtj YfYX'cb'mVmihY'a UW]bYfmi gYW]cbgz'g]bW' a cgh'cZ'hYa 'k YfY'Vta dUW]UbX'k YfY' bch'fhi W!a ci bhYX' Cb'hY'W]hYf]cb'Zcf'; <; 'Ya]gg]cbgz'hYfY'k Ug'U'Vta a Ybh'hUh'UXj]gYX'hY' fYa cj U' cZ' d'i [!]b' \mVf]Xg' Uh' Vta dfY\Ybg]j Y' 'Yj Y'z' UbX' U' g\UfY' cZ' fYbYk UV'Y'cZ) \$i "'D'i [!]b' \mVf]X']g' hfUbg]h]cb'hYW'bc'c[mibYYXYX'Zcf'W]fg' UbX'@7J gz'UbX'Zcf'fhi W'g']g'YggYbh]U'z'g]bW'gca Y'Xi lmiVW]WYg'f\YUj mi'cUXgz' `cb['X]ghUbb]W]gk'a UmVY'i bZYUg]V'Y'Zcf'Z' ``Y'YVW]W]j Y\]WYg'z'UbX'hY'a Uf_Yh' cZ'Z'Y'W'`j Y\]WYg']g'a Uf[]bU'') \$i 'k ci `X'VY'j YfmiX]ZZ]W'h'hc'UW]Yj Y']b' gca Y'fY[]cbgz'UbX'hY'V]ca Yh'UbY'gi dd'm]g' U' dfYfYei]g]hY' bch'a YUbh'hc' hY' j Y\]WYg' gi dd`Yfg' Vi h' hY' di V]WdfcWfYfg'' 5' dYfWbhU[Y' cZ' %) i ' Ybgi fYg' hUh' hYfY']g' U' fYXi W]cbz' UbX' bch' Ub']bW]YUgY'' H\Y' dYfWbhU[Y' dfcdcgYX']g']b']bY'k]h' hY'W]hYf]cb'Zcf'k UghY'Vt`YW]cb'j Y\]WYg']b'9l ; DD' hfUbgdcfh'

K]h' fY[UfXg'cZ'fYhfYUXYX' hmfYgz' U' ghU_Y\c`XYf'Vta a YbhYX'hUh'Yei]dd]b[' gk YYdYfg' k]h' h']g' hmdY' k Ug' bch' U' dfUW]W' Ua cb[' a Ubi ZUW]i fYfg' Zcf' gUZ]hmiUbX'k UffUbhmi fYUgcb'' <ck Yj Yfz'hY'W]hYf]cb']g'_Ydh'g]bW' fYhfYUXYX' hmfYg'a i gh'VY'Uddfcj YX'hc'5bbYI '%cZ'I B979'F Y[i 'Uh]cb' %\$- 'k \]W'gYhg' gUZ]hmfYei]fYa Ybhgz'Zcf'VY]b[' d'UW]X']b'hY'a Uf_Yh'

Cb'hY'W]hYf]cb'cb'U]f' dc''i hUbh'Ya]gg]cbgz' U' ghU_Y\c`XYf' fYVta a YbXYX' hfi W'g' hc' VY' nYfc!hU]d]dY' Ya]gg]cbg']Z' hY' i fVUb' UfYU' \UX' U' dccf' U]f' ei U']h'z'U'] []b]b['k]h'9l ; DD'W]hYf]cb'Zcf'W]fg'UbX'j Ub'g'k]h']b'hY'9l ; DD' W]hYf]U'Zcf'fcUX'hfUbgdcfh'' <ck Yj Yfz'hY'a Uf_Yh'Uj U]UV']hmicZ'nYfc'hU]d]dY'

Ya]gg]cbg' hfi W_g']g' j Yfm' `ja]hYXž' UbX' Wbbch' VY' Vta dUfYX' hc' Wf'g' UbX' j Ub' 6Yg]XYgž' h\Ym UfY' bch' h\Y' a U]b' Vbhf]Vi hcf'g' hc' h\Y' U]f' Ya]gg]cbg' cZ i fVUb' UfYUg' C h\Yf' Vta a Ybh'g' k YfY' U]a YX' Uh' WUf]Zn]b[' h\Y' W]hYf]U' UbX' h\Y' fUh]cbU'Y''

* "%& ; < ; 'Ya]gg]cbg'

F Uh]cbU'Y''

HYWbc`c[]Yg'

H\YfY']g' W ffYbh'm' U' XUHU' [Ud' h\Uh' \]bXYfg' Ub' 9! \Ufa' cb]gYX' UddfcUW' hc' Zcfa i' Uh' W]hYf]cb' VUgYX' cb' YbYf[m' Vbgi a dh]cb' cf' 7C& Ya]gg]cbg' dYfZcfa UbW' Zcf' \YUj m' Xi hm' j Y\]WYg' UbX' gdYVU' di fdcgY' j Y\]WYg' H\Y' 9i fcdYUb' 7ca a]gg]cb' \Ug' UfYUXm' XYj Y'cdYX' U' g]a i' Uh]cb' hcc' W'YX' J 97HC' fU Y\]WY' 9bYf[m' 7cbgi a dh]cb' W'W' Uh]cb' Hcc' tž' k \]W']g' U]a YX' hc' gi ddcfh' h\Y' Wfh]Z]W]h]cbž' a cb]hcf]b[' UbX' fYdcfh]b[' cZ 7C& Ya]gg]cbg' Zcfa' \YUj m' Xi hm' j Y\]WYg' <ck Yj Yfž' bch' Ybci [\' XUHU' VUgYX' cb' J 97HC' UfY' Uj U]UV'Y' hc' dfcXi W' h\Y' bYVWggUfm' VYbW'a Uf_gž' UbX']b' h\Y' WUgY' cZ gdYVU' di fdcgY' j Y\]WYgž' J 97HC']g' bch' Yl dYVWYX' hc' a cXY' h\Y]f' Xi hm' VmWYg']b' h\Y' a]X! hYfa '' H\YfYZcfYž' h\Y' cb' m' U'hYfbUh]j Y']g' Zcfa i' Uh]b[' W]hYf]U' VUgYX' cb' h\Y' Uj U]UV'Y' hYWbc`c[m' cdh]cbg' h\Uh' \Uj Y' XYa cbghfUH'YX' U' VYhYf' dYfZcfa UbW' h\Ub' h\Y' Uj YfU[Y''

: cf' f][]X' hfi W_gž' U']hYfUhi fY' fYj]Yk' \Ug' VYYb' Wff]YX' ci h' hc']XYbh]Zm' h\Y' hYWbc`c[]Yg' h\Uh' UfY' UV'Y' hc' fYXi W' ; < ; 'Ya]gg]cbg' Vta dUfYX' hc' U' Vtbj Ybh]cbU' X]YgY' j Y\]WY'' H\Y' ž' Y' Vbgi a dh]cb' cZ \YUj m' Xi hm' j Y\]WYg' UfY' \][\m' XYdYbXYbh' cb' h\Y' Xi hm' VmWYž' h\YfYZcfYž' U' X]gh]bW]cb']g' a UXY' VYhk YYb' i fVUb' UbX' fY[]cbU' VmWYg'' HUV'Y' & [Uh' Yfg' h\Y']bZcfa Uh]cb' Zcfa' h\Y']hYfUhi fY' fYj]Yk YX' f\ 7ž' &\$%* Vtž' f\ 77Hž' &\$%+ tž']bW' X]b[' h\Y' hmdY' cZ hYWbc`c[nž' UbX' k \Yh\Yf']h]g' Uddfcdf]UH' Zcf' cbY' VmWY' cf' ch\Yfž' cf' Vch''

HUV`Y`&`HYWbc`c[]Yg`Zcf`f[[]X`hfi W`g`f`f7`ž`&\$%`V`č`f`f7`Hž`&\$%+`Ł`

HndY`cZ` hYWbc`c[m	HYWbc`c[m	I fVUb`VWV`	F Y[]cbU`VWV`
<mVf]X]gUh]cb`	Ghcd#ghUfhVUthYfm gnghYa`g`	M`g`	M`gž`Vi`h`k`cfgY`h`Ub` i`fVUb`
<mVf]X]gUh]cb`	A]X`\\mVf]X`	M`g`	M`gž`Vi`h`k`cfgY`h`Ub` i`fVUb`
<mVf]X]gUh]cb`	: i`\\`mVf]X`	M`g`	M`gž`Vi`h`k`cfgY`h`Ub` i`fVUb`
5`hYfbUh]j`Y` Z`Y`g`	: i`\\`Y`VWV`WUbx`d`i`[]b` j`Y`\\WY`	M`g`	B`c`
5`hYfbUh]j`Y` Z`Y`g`	: i`Y`\\`W`\\`j`Y`\\WY`	M`g`	M`g`
5YfcXnbUa]Wg`	5W]j`Y`Zck`Včbhf`	B`cž`Xi`Y`h`c`ck`gdYXX` cdYfUh]cb`	M`g`
5YfcXnbUa]Wg`	6cUh`hU]`g`#`Yi`hYbg]cb` dUbY`g`	B`cž`Xi`Y`h`c`ck`gdYXX` cdYfUh]cb`	M`g`

H`Y`i`gY`cZ`bUhi`fU` [Ug`j`Y`\\WYg`a`UmifYgi`h`]b`VYhYf`dYfZcfa`UbW`h`Ub`h`Y]f`
 Yei`j`U`Ybh`X]YgY`j`Y`\\WYg`i`g]b[`gdYV]Z]W`hYWbc`c[]Ygž`UWVčfX]b[`h`c`h`Y`
 `UhYgh`di`V`]g`YX`ghi`X]Yg`":]fgh`cZ`U`ž`h`YfY`UfY`h`c`X]ZYfYbh`Yb[]bYg`i`gYX`]b`
 bUhi`fU` [Ug`j`Y`\\WYg`h`Uh`XYhYfa`]bY`h`Y]f`dYfZcfa`UbW`Vč`a`dfYgg]cb!
][b]h]cb`Yb[]bYg`i`gYX`]b`Xi`U!`Z`Y`j`Y`\\WYg`UbX`gdUf`!][b]h]cb`Yb[]bYg`i`gYX`
]b`XYX]WUhYX`j`Y`\\WYg`" 5WVčfX]b[`h`c`VUg]W`h`Yfa`cXnbUa]Wgž`Vč`a`dfYgg]cb!
][b]h]cb`Yb[]bYg`UfYž`]b[]YbYfUž`a`cfY`YZ]WYbh`h`Ub`gdUf`!][b]h]cb`g]bW`
 h`Ymik`cf`_`Uh`\\[\\Yf`Vč`a`dfYgg]cb`fUh]cg`" H`Y`YZ]WYbW`h`cggYg`cZ`XYX]WUhYX`
 j`Y`\\WYg`Xi`Y`h`c`h`]g`fYUgcb`j`Ufm`VYh`YYb`&\$`UbX`()i`f`l@ck`7J`Dž`&\$%+`Ł`"
 @ck`7J`D`fYdcfh`U`gc`]bX]WUhYg`h`Uh`XYX]WUhYX`bUhi`fU` [Ug`j`Y`\\WYg`k`]`VY`
 cdh]a`]gYX`]b`h`Y`Vč`a`]b[`mYUfg`/`ck`Yj`Yfž`h`Y`]a`dfcj`Ya`Ybh`]g`Yi`dYVWYX`h`c`
 VY`a`Uf[]bU`"

8i`U!`Z`Y`j`Yb[]bYg`fi`b`cb`Vch`X]YgY`UbX`bUhi`fU` [Ugž`k`]h` [Ug!`YbYf[mi`
 fUh]cg`fa`YUb]b[`h`Y`dYfW`bH]Y`cZ`X]YgY`Z`Y`fYd`UWVX`Vm[Ug`]b`Xi`U!`Z`Y`
 a`cXYŁ`Zfca`&(`h`c`(+`" 9Z]WYbW`h`cggYg`cZ`Xi`U!`Z`Y`j`Y`\\WYg`Vč`a`dUfYX`h`c`
 Vč`bj`Ybh]cbU`X]YgY`UfY`ga`U`ž`Vi`h`a`cgh`Xi`U!`Z`Y`j`Y`\\WYg`UfY`UZhYfa`Uf`_`Yh`
 Vč`bj`Yfg]cbg`UbX`h`Ymig`ck`\\[\\`Yj`Y`g`cZ`a`Yh`UbY`g`]dg`" H`Y`gY`Ya`]gg]cbg`
 cZ`a`Yh`UbYž`k`]h`U`;`K`D`cZ`&)`ž`WUbW`h`Y`dchYbh]U`VYbYZ]hg`cZ`h`Y`ck`Yf`
 W]fVcb`]bhYbg]hm`cZ`bUhi`fU` [Ug`f`f=95ž`&\$%+`Ł`f`l@ck`7J`Dž`&\$%+`Ł`" BYk`Xi`U!
 Z`Y`j`Y`\\WYg`Vm`cf][]bU`Yei`]da`Ybh`a`Ubi`ZUVi`fYfg`fC`9A`j`Y`\\WYg`k`gh]`
 fYdfYgYbh`U`j`Yfm`ga`U`g`UfY`cZ`h`Y`a`Uf`_`Yh`Vi`h`h`Y`bi`a`VYf`]g`[fck`]b[`f`
 fF`]W]fXc!`595ž`&\$%)`Ł`"G]bW`h`YmUfY`bYk`j`Y`\\WYg`]b`h`Y`a`Uf`_`Yh`h`Ymig`U`
 VY`Vč`a`d`]Ubh`k`]h`9i`fc`J`="]a`]h`Zcf`a`Yh`UbYž`k`\\]W`]g`Yi`dYVWYX`h`c`YbhU]`U`
 g][b]Z]W]bh`XYWYUgY`]b`a`Yh`UbY`g`]d`f`l@ck`7J`Dž`&\$%+`Ł`f`f=77Hž`&\$%`UŁ`"
 5WVčfX]b[`h`c`F`]W]fXc!`595ž`a`Yh`UbY`g`]d`Vč`i`X`VY`UVUhYX`h`c`%`cZ`h`Y`h`hU`
 ;`<`;`Ya`]gg]cbg`cZ`h`Y`j`Y`\\WY`" <ck`Yj`Yfž`bcbY`cZ`h`Y`hYgh`dfc[fUa`a`Yg`
 Vč`bgi`hYX`fF`]W]fXc!`595ž`&\$%)`Ł`f`f7YbYi`UbX`5h_]bgž`&\$%`Ł`f`l@ck`7J`Dž`
 &\$%+`Ł`a`YUgi`fYX`h`Y`a`Yh`UbY`g`]dg`cZ`C`9A`Xi`U!`Z`Y`j`Y`\\WYg`"Gi`Vgh]h`h]cb`

fUHg' k]'' U'gc']a dfcj Y']b' C9A' Xi U!Z Y'' j Y\]WYgž' i d' hc') \$i ''
 A Ubi ZJWf fYfg' UfY' U'gc' XYj Y'cd]b['\][\ dfYggi fY' X]fYVh'][b]h]cb' fk D8 =
 Yb[]bYg' h\Uh' i gY' X]YgY'' Z Y'' Ug' U' d]ch']b' U' Vta dfYgg]cb'][b]h]cb' Yb[]bY''
 H\]g' hYVh bc`c[m]g' Yl dYVWYX' hc' UVX]Yj Y' [Ug' gi Vgh]h' h]cb' fUh]cg' UVcj Y' -) i '
 k]h' bc`cgg' cZ Yb[]bY' YZ]WYbVh' H\]g' Yb[]bY' k Ug' XYj Y'cdYX' VmK YghdcfHž'
 UbX' Jc'j c' \Ug' fYVWbhmi]a d'Ya YbhYX']h']b' hfi W_g' fF]WfXcž' &\$% Łž' fI7YbYl '
 UbX' 5h_]bgž' &\$%* Ł''

K]h' U'' h\]g' XUHuž']h']g' ZYUg]V'Y' hc' Ygh]a UH' h\Y' h\YcfYh]W' fY'Uh]j Y'
 dYfZcfa UbW' cZ U' bUhi fU' [Ug' j Y\]WY' Vta dUfYX' hc' Ub' Yei]j U'Ybh' X]YgY''
 j Y\]WYž' Uggi a]b['Vch' UfY' X]Ybh]W']b' Yb[]bY' g]nY' UbX' hfUbga]gg]cbž' k \]W'
 a][\h' bch' VY' fYdfcXi V'W'Y']b' fYU' dfUW]W'' H\Y' bUhi fU' [Ug' j Y\]WYg' UfY'
 U'gc' Uggi a YX' hc' VY' Vta d']Ubh' k]h' '9i fc' J =a Yh\UbY'']a]h' H\Y' fYgi 'hg' UfY'
 g\ck b']b' HUV'Y'' ''

HUV'Y'' . H\YcfYh]W' fY'Uh]j Y' dYfZcfa UbW' cZ bUhi fU' [Ug' j Y\]WYg' Vta dUfYX'
 hc' X]YgY'' j Y\]WY'

	9Z]WYbVh'`cgg'	; Ug' YbYf[mi fUh]cg'	i 'K HK' fYXi Vh]cb'
C9A' 8i U!Z Y''	(i '	() !') \$i ') "&! '*"(('
8YX]W]hYX'	&\$! '() i '	%%\$i '	) "&É' f! %) "\$Ł'
<][\ ' dfYggi fY' X]YgY' #] Ug']b' YVh]cb'	\$i '	-) i '	%("' '

K HK' ZJW'fcfg' fb97' ! >c]bh'FYgYUfW' 7YbhfY! 9l 75F! 7CB75K 9'Vt' UVcfUh]cbž' &\$%(Ł'
 8]YgY'' 1 ' , , '* '[7C_&Ye#A >
 7B; ' 1 '* - "' [7C_&Ye#A >
 @B; ' 1 ' + (") [7C_&Ye#A >

H\]g' UbU'mg]g']g' VUgYX' cb' U'']h'fUhi fY' fYj]Yk' cZ h\Y' dYfZcfa UbW' cZ bUhi fU'
 [Ug' hfi W_gž']b' dUfh]W' Uf' U' fYdcfh' Z'ca' @ck 7J Dž' Emissions Testing of Gas-
 Powered Commercial Vehicles f@ck 7J Dž' &\$%+Ł h\Uh [Uh\Yfg' h\Y' fYgi 'hg' cZ
 U' hYgh' dfc[fUa a Y' W]ff]YX' ci h' cb' XYX]W]hYX' UbX' Xi U!Z Y'' bUhi fU' [Ug'
 hfi W_gž' UbX' h\Y' @ck' 7UfVcb' Hfi W_ Hf]U' f@7HHL' fI7YbYl ' UbX' 5h_]bgž' &\$%* Ł'
 h\Uh' Vtbg]ghg' cZ %& Vtbgcfh]U' dfc' YVtg' k]h' ') ' dUfh]W]dUh]b[' Vta dUb]Yg'
 k \]W' hYghYX' U'gUa d'Y' cZ' +%j Y\]WYg' i bXYf' X]ZYfYbh' Xi hmiV'W'W'g''

6UgYX' cb' h\]g']bZcfa Uh]cbž' C9A' Xi U!Z Y'' bUhi fU' [Ug' j Y\]WYg' h\Uh' W]b'
 XYa cbghfUHY' U' [Ug' !YbYf[mi fUh]c' cZ Uh' YUgh') \$i ' UfY']bW' XYX']b' h\Y'
 W]hYf]cb' dfcdcgU' Ug' Y'][]V'Y' hYVh bc`c[]Yg'' J Y\]WYg' Yei]ddYX' k]h' < D8 =UfY'
 U'gc' Y'][]V'Y'' 8YX]W]hYX' bUhi fU' [Ug' j Y\]WYg' UfY' Y'][]V'Y' cb'm]Z' h\YfY']g' U'
 gi dd'm' cZ fYbYk UV'Y' a Yh\UbY' h\Uh' a Y'hg' %) i ' cZ h\Y' Z Y'' XYa UbX'' H\]g'
 dYfWbhU[Y' Ybgi fYg' h\Y' ; < ; ' Ya]gg]cbg' fYXi Vh]cb' Vta dUfYX' hc' X]YgY''
 j Y\]WYg''

GdYVWZWHYVWbc`c[]Yg' Zcf' gdYVWU' di fdcgY' j Y\]WYg' \Uj Y' VYYb' Yi d'cfYX' Ug' k Y'' Bch'a i VW']bZcfa Uh]cb'\Ug' VYYb' Zci bXZ' Vi h'gca Y'a cXY'g'cZ'gk YYdYfg' WU]a 'U'fYXi V\]cb'cZ'Z' Y' V\cbgi a dh]cb'k \Yb'Yei]ddYX'k]h' U'cUX!gYbg]b[! \mXfUi ']WgmghYa 'fA UW'cz'&\$\$%+Łz'fbi VXYf'A i b]V]dU'z'&\$\$%+Ł"

HmfY'dfYggi fY'a cb]hcf]b['gmghYa g'fHDA GŁ

HmfY'dfYggi fY'a cb]hcf]b['gmghYa g'fHDA GŁ'UfY'a cb]hcf]b['hcc'g' h Uh'\Y'd'U' Xf]j Yf'hc' UX'gh'h'Y]f'VY\Uj]ci f'UbX'W\]b'fYXi W'Z' Y' V\cbgi a dh]cb'Vm'U'ZYk' dYfW'bh''HmfY'dfYggi fY'a cb]hcf]b['gmghYa g'fHDA GŁ'UfY'a UbXU'hc'fm'Zcf'bYk' dUggYb[Yf'W'fgz'Vi h'bch'Zcf'@7J'g'UbX'\YUj m'Xi]m'j Y\]WYg''HDA G'W\]b'fYgi 'h']b'Ub'Uj YfU[Y'Z' Y' V\cbgi a dh]cb'fYXi V\]cb'cZ' %a' fŁ7z' &\$\$*UŁ'Uh'fY'Uh]j Y' `ck' V\gh'fD&&\$'k]h'ci h'g\]dd]b['UbX']bghU'Uh]cb'Ł'' <ck Yj Yfz' HDA G'Xc' bch' fYgi 'h']b' g][b]Z]W\]bh'Z' Y' fYXi V\]cbg']b' j Y\]WYg' Xf]j Yb' Uh' j Yfm'`ck' gdYXX' gi V\ Ug' gk YYdYfg' UbX' gdYUXYfgz' UbX' Zcf' h'Uh' fYUgcbz' gdYVWU' di fdcgY' j Y\]WYg'UfY'ci h'cZ'h'Y'gV\`dY'cZ'h']g'W]hYf]cb''

J Y\]WY' hmfYg#fc`]b['fYg]ghUbVW'

@ck' fc`]b['fYg]ghUbVW' hmfYg'W\]b'fYXi W'Z' Y' V\cbgi a dh]cb'Vm'U'ZYk' dYfW'bh'' H\Y' VYgh' dYfZcfa]b[' hmfYg' UW\`fX]b[' hc' h'Y' HmfY' @JY']b[' 8]fYV\]j Y' UfY' k]XY'm'Uj U]UV'Yz' UbX' VYg]XYgž' h'Y' 9bYf[m'9Z]VYb'W\] 8]fYV\]j Y' &\$\$&#&+ #9I' ghU]g.'

'Central governments that purchase products, services or buildings, insofar as this is consistent with cost-effectiveness, economical feasibility, wider sustainability, technical suitability, as well as sufficient competition, shall:

...

..- purchase only tyres that comply with the criterion of having the highest fuel energy efficiency class, as defined by Regulation (EC) No 1222/2009 of the European Parliament and of the Council of 25 November 2009 on the labelling of tyres with respect to fuel efficiency and other essential parameters. This requirement shall not prevent public bodies from purchasing tyres with the highest wet grip class or external rolling noise class where justified by safety or public health reasons'

;]j Yb' h'Y' a Uf_Yh' Uj U]UV']h'z']h' gYYa g' 'gh]Z]YX' hc' dfcdcgY' h'Uh' di V']W' dfcW'fYfg' di fVW'UgY' j Y\]WYg' Yei]ddYX'k]h' bYk' hmfYg'cZ' h'Y' \][\Ygh'Z' Y' YbYf[m'YZZ]VYb'W\] WUggz' Ug' dUfh' cZ' h'Y' 9I' ; DD' W]hYf]U'' H\YfYZcfYz']h']g']bW\] XYX'Ug' U'h'V\]b]W\]gdYV\]Z]W\]h]cb'Zcf'V\`fY'UbX'V\`a dfY\Ybg]j Y'' <ck Yj Yfz' `ck' fc`]b['fYg]ghUbVW' hmfYg' Xc' bch' fYgi 'h']b' g][b]Z]W\]bh'Z' Y' fYXi V\]cbg']b' j Y\]WYg' Xf]j Yb' Uh' j Yfm'`ck' gdYXX' gi V\ Ug' gk YYdYfg' UbX' gdYUXYfgz' UbX' Zcf' h'Uh' fYUgcbz' gdYVWU' di fdcgY' j Y\]WYg'UfY'ci h'cZ'h'Y'gV\`dY'cZ'h']g'W]hYf]cb''

H\Y' FY[i 'Uh]cb' f97Ł' Bc' %&&#&\$\$- ' XcYg' bch' Udd'm' hc' fYhfYUXYX' hmfYgž' k \]W' g\U'' V\`a d'm' k]h' h'Y' dfcj]g]cbg' cZ' I B979' FY[i 'Uh]cb' %\$- ' Ug' U' V\`a di `gcfm' V\`bX]h]cb' hc' VY' d'UW\X' cb' h'Y' a Uf_Yh' H\Y' i gY' cZ' fYhfYUXYX' hmfYg']bghYUX' cZ' bYk' hmfYg' Vf]b[g' Ybj]fcb'a YbhU' VYbYZ]hg' Xi Y' hc' h'Y' fYXi V\]cb'cZ' fUk' 'a UhYf]U'g' V\cbgi a dh]cb'UbX'k UghY' [YbYfUh]cb'' H\YfYZcfYz' h'Y' h'Y'V\]b]W\]gdYV\]Z]W\]h]cb' W\]b' VY' V\`a d']YX'k]h' Vch' `ck' fc`]b['fYg]ghUbVW'

mfYg UbX fYhfYUXYX hmfYg" 5b Uk UfX W]hYf]cb Zcf h YgY hmfYg]g dfcdcgYX gYdUfUHY`mUhVta dfY\Ybg]j Y`Yj Y`Zcf`gdYVWU`di fdcgY`j Y\]WYg"

H\Y`FY[i`Uh]cb`f97Ł`Bc`%&&#&\$-\$-`]g`W`ffYbh`mi`bXYf`fYj`]g]cb`UbX` \YbW` h\g`W]hYf]cb`k`]`bYYX`hc`VY`i`dXUH`YX`UVW`fX]b[`m`

5]f`VtbX]h]cb]b[`

5]f`VtbX]h]cb]b[` [UgYg UfY`fY`Yj`Ubh`Zcf` \YUj`miXi`hmj`Y\]WYgž`VYWVi`gY`h`Ymi` UfY`YI`VM`XYX`Zfca`h`Y`A57`8]fYVW]j`Y`f&\$\$*#(\$#97Ł`k` \]W`dfcj`]XYg`U` [fUXi`U`d\UgY!ci`h`cZ`fYZf][`YfUbh`<: 7!%` (U`Zfca`a`cV]`Y`U]f`VtbX]h]cbYfg`]b` dUggYb[`Yf`WVfg`UbX`][` \h`Vta`a`YfVWU`j`Y\]WYg" <ck`Yj`Yfž`h`Y`<: 7g`i`gYX`]b` h`YgY`gmghYa`g`UfY`UZZYVWYX`Vm`h`Y`d\UgY!Xck`b`di`h`]b`d`UWV`Vm`h`Y` : ! [Ug` FY[i`Uh]cb`fFY[i`Uh]cb`f91 Ł`Bc`)%+&#&\$(Ł`k` \]W`k`]`YI`Yfh`U`ghfcb[` dfYggi`fY`cb`df]Wg`cZ`h`YgY` [UgYg`Ug`h`Y`gi`dd`m`k`]` VYVta`Y`a`cfY` fYghf]VWYX" H\YfYZcfYž`h`YfY`]g`U`ghfcb[`fY[i`Uhcfm`Xf]j`Yf`]b`d`UWV`h`UH` ZUj`ci`fg`h`Y`i`gY`cZ`ck` ; K`D`cf`Yj`Yb`bcb!<: 7`fY"[`"7C&Ł`h`VWbc`c[]Yg`]b` h\g`gYVW`f`"

7f]hYf]U`DfcdcgU`

7cfY`W]hYf]U`	7ca`dfY\Ybg]j`Y`W]hYf]U`
HYWb]W`gdYVW]Vh]cbg`	
<p>HG%"`HYWbc`c[]W`cdh]cbg`hc`fYXi`W` ; < ; `Ya`]gg]cbg`</p> <p>Note: this criterion is applicable to heavy duty vehicles and special purpose vehicles</p> <p>H\Y`j`Y\]WY`a`i`gh`VY`Yei`]ddYX`Vm`cbY`cZ`h`Y` Zc`ck`]b[` h`YVWbc`c[]Yg`XYa`cbghfU]b[`K`HK` ; < ; `Ya`]gg]cbg`fYXi`W]cb`</p> <ul style="list-style-type: none"> • =a`dfcj`Ya`Ybh`]b`UYfcXnbUa`]Vg`UW]j`Y`Zck`Vtbhfc`fcb`mi`Zcf`hfi`Wg`i`gYX`]b`fY[]cbU`Xi`hmVWYgŁ` • =a`dfcj`Ya`Ybh`]b`UYfcXnbUa`]Vg`6cUh`HU]g`#`YI`hYbg]cb`dUbYg`fcb`mi`Zcf`hfi`Wg`i`gYX`]b`fY[]cbU`Xi`hmVWYgŁ` • <mVf]X`j`Y\]WYgž`Vch`X]YgY`UbX`bUh`fU`[Ug` • : i`9`YVWf]Wj`Y\]WYg` • <mXfc[Yb`Z`Y`7Y`9`YVWf]Wj`Y\]WYg" • C9A`Xi`U!`Z`Y`bUh`fU`[Ug`j`Y\]WY`k`]h`U`[Ug`YbYf[m`fU]c`cj`Yf`h`Y` \ch`dUfh`cZ`h`Y`K`<H7`hYgh`VWY`cZ`Uh`YUgh`)\$i`" 	<p>HG%"`HYWbc`c[]W`cdh]cbg`hc`fYXi`W` ; < ; `Ya`]gg]cbg`</p> <p>Note: this criterion is applicable to heavy duty vehicles and special purpose vehicles</p> <p>H\Y`j`Y\]WY`a`i`gh`VY`Yei`]ddYX`Vm`cbY`cZ`h`Y` Zc`ck`]b[` h`YVWbc`c[]Yg`XYa`cbghfU]b[`K`HK` ; < ; `Ya`]gg]cbg`fYXi`W]cb`</p> <ul style="list-style-type: none"> • : i`9`YVWf]Wj`Y\]WYg` • <mXfc[Yb`Z`Y`7Y`9`YVWf]Wj`Y\]WYg" • C9A`Xi`U!`Z`Y`bUh`fU`[Ug`j`Y\]WY`k`]h`U`[Ug`YbYf[m`fU]c`cj`Yf`h`Y` \ch`dUfh`cZ`h`Y`K`<H7`hYgh`VWY`cZ`Uh`YUgh`)\$i`" • <][` \dfYggi`fY`X]fYVh`]b`YV]cb`bUh`fU`[Ug`j`Y\]WYg` • Di`[!]b` \mVf]X`j`Y\]WY`Yei`]ddYX`k`]h`U`VUhYfm`dUW`k` \]W`Wb`VY`WUf[YX`Zfca`h`Y`[f]X`UbX`dfcj`]XYg`h`Y`YbYf[m`Zcf`h`Y`Y`YVWf]W`Xf]j`Y`cZ`h`Y`VcXmiUbX`Yei`]da`Ybh` • @cUX!`gYbg]b[!` \mXfUi`]W`gmghYa`fZcf`gk`YYdYfgŁ`h`Y`Zck`!`WdUW]mi`cZ`h`Y`di`a`d`k`]`VY`fY[i`UH`YX`h`fci`[\`h`Y`cUX!`gYbg]b[!`dfYggi`fY`" • 8YX]W]hYX`bUh`fU`[Ug`j`Y\]WYg`i`bXYf`h`Y`VtbX]h]cbg`gYh`]b`h`Y`bchY`VY`ck`"

<ul style="list-style-type: none"> • <][\` dfYggi fY` X]fYVh`]b`YVh]cb` bUhi fU` [Ug] j Y\]WYg` • D'i [!]b` \mVf]X.` J Y\]WY` Yei]ddYX` k]h` U` VUHhYfm dUW` k \]W` WUb` VY` V\Uf[YX` Zfca` h\Y` [f]X` UbX` dfcj]XYg` h\Y` YbYf[mZcf` h\Y` Y`YVWf]W` Xf]j Y` cZ` h\Y` VcXmiUbX` Yei]da Ybh` • @cUX! gYbg]b[! \mXfUi`]WgmghYa` fZcf` gk YYdYfgt.` h\Y` Zck! WdUW]hmi cZ` h\Y` di a d`k]` VY` fY[i` UHhX` h`fci [\` h\Y` `cUX! gYbg]b[! dfYggi fY`" • 8YX]WUHYX` bUhi fU` [Ug` j Y\]WYg` i bXYf` h\Y` W`bX]h]cbg` gYh`]b` h\Y` bchY` VY`ck`" <p><i>Note: The contracting authority may include dedicated natural gas vehicles if they have a supply of renewable methane meeting at least 15% of their demand.</i></p> <p>J Yf]Z]WU]cb.`</p> <p>H\Y` hYbXYfYf` a i gh` dfYgYbh` h\Y` hYV\ b]W` g\YYh` cZ` h\Y` j Y\]WY` k \YfY` h\YgY` hYV\ b]W` cf` Z` Y` hYV\ bc`c[mgdYV]Z]WU]cbg` UfY` ghUHYX`"</p>	<p><i>Note: The contracting authority may include dedicated natural gas vehicles if they have a supply of renewable methane meeting at least 15% of their demand.</i></p> <p>J Yf]Z]WU]cb.`</p> <p>H\Y` hYbXYfYf` a i gh` dfYgYbh` h\Y` hYV\ b]W` g\YYh` cZ` h\Y` j Y\]WY` k \YfY` h\YgY` hYV\ b]W` cf` Z` Y` hYV\ bc`c[mgdYV]Z]WU]cbg` UfY` ghUHYX`"</p>
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HG&"HmfY DfYggi fY A cb]hcf]b['GmghYa g fHDA GL"

f(Same for core and comprehensive)

Note: this criterion is not applicable to special-purpose vehicles, i.e. truck-mounted sweepers

@7J g UbX \YUj m Xi lmj Y \]WYg a i gh VY Yei]ddYX k]h \ hmfY dfYggi fY a cb]hcf]b['gmghYa g fHDA GL cf k]h \ gybgcfcg h Uh YbUV Y h Y a cb]hcf]b['Uh h Y cdYfUhc f g]hY"

J Yf]Z]W]h]cb.

H \ Y h Y bXYfYf a i gh d f c j]X Y h Y h Y W b]W g \ Y Y h c Z h Y j Y \]W Y k \ Y f Y h]g] b Z c f a U h]c b] g ghU h Y X"

HG' "J Y \]W] hmfYg E' fc"]b['fYg]ghUbW"

f(Same for core and comprehensive)

Note: this criterion is not applicable to special-purpose vehicles, i.e. truck-mounted sweepers

H \ Y j Y \]W Y g a i gh V Y Y e i]d d Y X k]h . "

U E HmfYg h Uh V a d m i k]h \ h Y \] [\ Y gh Z Y Y b Y f [m i Y Z] W Y b W h W U g g Z c f f c "] b [f Y g] g h U b W Y i d f Y g g Y X] b _ [# c b b Y z U g X Y Z] b Y X V m F Y [i U h] c b f 9 7 E B c % & & # & \$ \$ - c Z h Y 9 i f c d Y U b D U f] U a Y b h U b X c Z h Y 7 c i b W c Z &) B c j Y a V Y f & \$ \$ - c b h Y U V Y "] b [c Z hmfYg k]h \ f Y g d Y W h h c Z Y Y Z] W Y b W h U b X c h \ Y f Y g g Y b h] U d U f U a Y h Y f g " H \] g f Y e i] f Y a Y b h a i g h b c h d f Y j Y b h h Y d i V] W U i h c f] h m Z c a d i f W U g] b [hmfYg k]h \ h Y \] [\ Y gh k Y h [f] d W U g g k \ Y f Y i g h] Z] Y X V m i g U Z Y h m i "

CF

V E F Y h f Y U X Y X hmfYg

Note: Regulation (EC) No 1222/2009 is currently under revision, and as part of this process, the European Commission has put forward proposal COM(2018) 296. This criterion will need to be updated according to the new legislation, once it is in force.

J Yf]Z]W]h]cb.

H \ Y h Y bXYfYf a i gh d f c j]X Y h Y U V Y c Z h Y hmfY U W W f X] b [h c F Y [i U h] c b f 9 7 E B c % & & # & \$ \$ - Z c f hmfYg i bXYf W U g Y U z c f h Y B c h] W c Z U d d f c j U U W W f X] b [h c 5 b b Y I % c Z I B 9 7 9 F Y [i U h] c b % \$ - Z c f f Y h f Y U X Y X hmfYg f W U g Y V E "

5k UfX W]hYf]U

	<p>57%"5]f VėbX]h]cb]b[' [UgYg'</p> <p>Dc]bhg' k]'' VY' Uk UfXYX' hc' hcgY' <8Jg' Yei]ddYX' k]h\ Ub' U]f' VėbX]h]cb]b[' gmghYa' hUh' i gY' U' fYZF][YfUbh' k]h\ U' ['cVU' k Ufa]b[' dchYbh]U' f] K Dėž' fY'UHfX' hc' 7C.& UbX'U'h]a Y'\cf]ncb'cZ%\$\$'mYUfgž'O %) '\$''</p> <p>J Yf]Z]W]h]cb.</p> <p>H\Y' hYbXYfYf' a i gh' dfcj]XY' h\Y' bUa Yž' Zcfa i 'U' UbX'; K D' cZ h\Y' fYZF][YfUh]b[' [Ug' i gYX']b' h\Y' U]f' VėbX]h]cb]b[' gmghYa "' =Z U' a]l hi fY' cZ [UgYg']g' i gYX' fb' bi a VYf' cZ [UgYgž' h\Y' ; K D' k]'' VY' W'W'UHfX' Ug' Zc'ck g.</p> <p>; K D1' fGi VghUbW' L% i ' i ' ; K DfL %ėž' Ž' fGi VghUbW' L & i ' i ' ; K DfL &ėž' Ž' Ā' fGi VghUbW' L b i ' i ' ; K DfL bėž'</p> <p>k \YfY' i ']g'h\Y' Vėbhf]Vi h]cb'Vmik Y][\h k]h\ U'k Y][\h'hc'YfUbW' cZ Ž' # ' % i ' "</p> <p>→Zcfa Uh]cb' cb' h\Y' ; K D' cZ [UgYg' WUb' VY' Zci bX']b' 5bbYI Yg' = UbX' = cZ FY[i 'Uh]cb' f]l Ē' Bc')%+ #&\$%(' f\Htd. #Yi f! 'Yi "Yi fcdU"Yi #Y[U!</p> <p>VėbhYbh#9B #HL H#3i f]1 i f]gYfj .C >"@S"&\$%("%) \$"%\$%-) "\$%"9B; Ē''</p>
	<p>57&"J Y\]W' hmfYg' Ē' fYhfYUXYX' hmfYg'</p> <p>Dc]bhg' k]'' VY' Uk UfXYX' hc' gdYVU' di fdcgY' j Y\]Wg' Yei]ddYX' k]h\ fYhfYUXYX' hmfYg'</p> <p>J Yf]Z]W]h]cb.</p> <p>H\Y' hYbXYfYf' a i gh' dfcj]XY' h\Y' Bch]W' cZ Uddfcj U' UWVėfX]b[' hc' 5bbYI ' % cZ I B979' FY[i 'Uh]cb' %\$- 'Zcf' fYhfYUXYX' hmfYg''</p>

* "%" **5]f' dc'' i hUbh'Ya]gg]cbg'**

F Uh]cbU'Y''

5'' bYk' \YUj miXi hmij Y\]Wg' d'UWfX' cb' h\Y' a Uf_Yh'g\U'' Vėa d'mik]h\ '9i fc' J =ž' k \]W' gYhg' Vėa dUfUh]j Y'mghf]Vh']a]hg'cb'U]f' dc'' i hUbhg'' 9i fc' J =fYXi W'g' h\Y' DA' Ya]gg]cb'']a]hg' Vm' * +i ' Vėa dUfYX' hc' 9i fc' =] UbX' J ž' UbX']bVh' XYg' U' DB' fdUfh]W' bi a VYfĒ']a]h' =h' U'gc' XYWfYUgYg' h\Y' BCI' Ya]gg]cb'']a]h' Vm' ++i ' Vėa dUfYX' hc' 9i fc' J'' H\Y' ghUbXUfX' U'gc' fYd'UWg' h\Y' 9i fcdYUb' GHUh]cbUfmi 7mW' UbX' HfUbg]Ybh' 7mW' i gYX' Zcf' hYgh]b[' Vm' h\Y' K cf'X' \Ufa cb]nYX' HfUbg]Ybh' VmWYž' k \]W' Vėj Yfg' Vė'X' UbX' \ch' ghUfhž' UbX']b[[YbYfU' ghf]Wf' hYgh]b[' VėbX]h]cbg' f]cUXž']X'Y' h]a YĒ'' 9i fc' J =]bhfcXi W'g']b! gYfj]W' VėbZcfa]hmi hYgh]b[' i g]b[' DcfhUV'Y' 9a]gg]cb' A YUgi fYa Ybh' GmghYa gž' h\Y' Z]fgh'cbY' hc' VY' W]ff]YX' ci h'k]h\]b' % ' a cbh\g' cZ h\Y' Uddfcj U' UbX' h\Yb' Yj Yfmi & mYUfg'' Ch\Yf' VWUb[Yg' UfY' U' bYk']a]h' Zcf' Ua a cb]U' Ya]gg]cbg' ! Xi Y'

hc`h\Y`gY`VW]j Y`W]hU`m]WfYXi V]cb`gmghYa g`i`g]b[`i`fYU!`UbX`ghf]W]f` `]a]hg`Zcf`a Yh\UbY`cb`7B; `UbX`@B; `j`Y\]WYg`f=77Hž`&\$\$`Ł`

H\Y`]ZY]h]a Y`cZ`YUj mXi hmj Y\]WYg`]g`Vta dUfU]j] Y`m`cb[ž`k]h`Ub`Uj YfU[Y`cZ`%&`mYUfg`f5795ž`&\$\$+Ł` : cf`h\]g`fYUgcbž`h\YfY`]g`U`a Uf`_Yh`Zcf`i`gYX`hfi`W]g`h\Uh`g\U` VY`hU`_Yb`]bhc`UW]ti bh`H\Uh`YUXg`hc`U`hYW]b]W]gdYVZ]W]h]cb`fYei`Ygh]b[`h\Y`Vta d`]UbW`k]h`9i`fc`J`ž`]Z`bYYXYX`Vmia`YUbg`cZ`fYhf]c]h]b[`YI` \Ui`gh`UZhYf!`fYUha`Ybh`hYW]bc`c[`mhc`YI`]gh]b[`hfi`W]g`

HYghg`W]ff]YX`ci`h`Vm`@ck`7JD`f@ck`7JDž`&\$\$+Ł`]b` \YUj`m`[`ccX`j`Y\]WYg`g\ck`YX`h\Uh`9i`fc`J` = \UX`VYyb`YZZYV]j`Y`]b`W`h]b[`cj`YfU`BCI`Ya`]gg]cbg`Vmicj`Yf`-` , `i`k` \Yb`Vta`dUfYX`hc`9i`fc`J`j`Y\]WYg`9i`fc`J`=XYX]W]hYX`bUhi`fU`[`Ug`j`Y\]WYg`]bW]YUg`h\Uh`fYXi`V]cb`]b`BCI`Ya`]gg]cbg`hc`-`-`i` "5W]tfx]b[`hc`h\]g`fYdcf]ž`BCI`Ya`]gg]cbg`cZ`XYX]W]hYX`bUhi`fU`[`Ug`hfi`W]g`k`YfY`%(\$`a`[#_a`]b`Uj`YfU[`Yž`k` \]Y`X]YgY`j`Y\]WYg`Ya`]hYX``\$\$`a`[#_a`"Cb`m`Y`V]W]f]W]UbX` \mXfc[`Yb`j`Y\]WYg`W]b`fYXi`W`h\Y`Ya`]gg]cbg`ž`fh\Yfž`hc`nYfc`hU]d]dY`U]f`dc`i`hU]bhg`Ya`]gg]cbg`<`ck`Yj`Yfž`h\Y`Vta`d`]UbW`cZ`<8J`g`k`]h`9i`fc`J`=]g`a`YUgi`fYX`Ug`a`[`dYf`_K` \`XY`j`YfYX`Vm`h\Y`Yb[`]bYž`UbX`h\YfYZcfYž`h\cgY`fYgi`hg`UfY`cb`mj`U`X`hc`Yj`U`i`UhY`Vta`d`]UbW`UbX`bch`hc`Vta`dUfY`X]ZZYfYbh`j`Y\]WYg` : cf`h\]g`fYUgcbž`h\Y`W]hYf]cb`a`i`gh`gYh`h\Y`hYW]bc`c[`]Yg`UV`Y`hc`ci`hdYfZcfa`9i`fc`J`ž`]Y`bUhi`fU`[`Ugž`d`i`[!`]b` \mVf]Xž`Y`V]W]f]W]UbX` \mXfc[`Yb`j`Y\]WYg`H\]g`gYh`cZ`hYW]bc`c[`]Yg`]g`Yei`]j`U`Ybh`hc`h\cgY`]bW]XYX`]b`h\Y`XYZ]b]h]cb`cZ`W]Ub`j`Y\]WYg`k`]h]b`Vm`h\Y`DfcdcgU`Zcf`U`8]fYV]j`Y`Ua`YbX]b[`8]fYV]j`Y`&\$\$`-`#`'`#9i`cb`h\Y`dfca`ch]cb`cZ`W]Ub`UbX`YbYf[`m`YZZ]W]Ybh`fcUX`hfUbgdcfh]f7CA`f&\$\$+Ł`*)`'`5bbYI`HUV`Y`)`Ł`

H\Y`gVtdY`cZ`h\Y`W]hYf]cb` \Ug`VYyb`W]f]Z]YXž`g]bW]gca`Y`B`&`j`Y\]WYg`UbX`gdYV]U`di`fdcgY`j`Y\]WYg`UfY`gi`V`YV]hc`9i`fc`*`gh]UbXUfXgž`bch`9i`fc`J`="

7f]hYf]U`DfcdcgU`

7cfY`W]hYf]U`	7ca`dfY\`Ybg]j`Y`W]hYf]U`
HVW]b]W]gdYV]Z]W]h]cb`	
<p>HG`("5]f`dc`i`hU]bhYa`]gg]cbg`dYfZcfa`UbW` <i>f(Same for core and comprehensive)</i></p> <p>B`j`Y\]WYg`UbX`B`&`j`Y\]WYg`k`]h`U`fYZfYbW`a`Ugg%Ł`YI`W]YX]b[`&`*`%\$`_`[`a`i`gh`a`YYh`9i`fc`J`="</p> <p>B`&`j`Y\]WYg`k`]h`U`fYZfYbW`a`Ugg%Ł`bch`YI`W]YX]b[`&`*`%\$`_`[`a`i`gh`Vta`d`m`k`]h`h\Y`HG`&`5]f`dc`i`hU]bhYa`]gg]cb`dYfZcfa`UbW`cZ`h\Y`9i` ;`DD`cZ`HfUbgdcfh]W]hYf]U`Zcf`W]f]g`UbX`@7J`g`f]7UhY[`cfm%Ł`</p> <p>J`Y\]WY!`a`ci`bhYX`gk`YYdYfg`a`i`gh`a`YYh`9i`fc`J` = cf`9i`fc`*`ž`XYdYbX]b[`cb`h\Y`fYZfYbW`a`Ugg`cZ`h\Y`j`Y\]WY`h\YmUfY`a`ci`bhYX`</p> <p>J`Yf]Z]W]h]cb.`</p> <p>H\Y`hYbXYfYf`a`i`gh`dfYgYbh`h\Y`W]fh]Z]W]hY`cZ`VtbZcfa`]micZ`h\Y`j`Y\]WY` : cf`h\cgY`j`Y\]WYg` \Uj`]b[`UVW]Yj`YX`UVcj`Y!`a`Ybh]cbYX`gh]UbXUfX`Zc`ck`]b[`U`hYW]b]W]`i`d[`fUXY`h\Y`a`YUgi`fYg`</p>	

<p>a i gh VY XcW a YbhYX UbX j bWl XYX j b h Y hYbXYfz UbX h jg a i gh VY j Yf]ZYX Vm Ub j bXYdYbXYbh h jfX dUfmi</p>
<p>5k UfX W]hYf]U</p>
<p>57' "" =a dfcj YX U]f dc`i HJbhYa jgg]cbg dYfZcfa UbW` <i>(Same for core and comprehensive)</i></p> <p>B j Y\]WYg UbX B & j Y\]WYg k]h U fYZfYbW` a Ugg¹⁾ Yl WYX]b [& * % \$ _ [UbX gdYVWU` di fdcgY j Y\]WYg Dc]bhg`k] VY Uk UfXYX hc`h Y Zc`ck]b [hYVWbc`c []Yg`</p> <ul style="list-style-type: none"> • bUhi fU` [Ug` • d`i []b` \mVf]X` Y`YVWf]Wj Y\]WYg fD < 9J E` • VUHyfmY`YVWf]Wj Y\]WYg f69J E` UbX` • \mXfc [Yb` Z` Y` W` Y`YVWf]Wj Y\]WYg ft 79J E` <p><i>(to be detailed to which extent more points will be attributed to zero tailpipe capable vehicles, i.e. plug in hybrid electric vehicles (PHEV), battery electric vehicles (BEV), and fuel cell electric vehicles (FCEV). Zero tailpipe emissions capable vehicles must be given more points than natural gas vehicles.)</i></p> <p>B & j Y\]WYg k]h U fYZfYbW` a Ugg` bch Yl WYX]b [%& * % \$ _ [h Y Zcfa i U` cZ h Y` 57' =a dfcj YX U]f dc`i HJbhYa jgg]cbg dYfZcfa UbW` UbX` 57 (NYfc` HJ]d]dY` Ya jgg]cb` WdUV]]hm cZ h Y` 9l ; DD` cZ HfUbgdcfh W]hYf]U` Zc`f` Wf]g` UbX` @7 J g f7 UhY [cfm %&</p> <p>J Yf]Z]W]h]cb.</p> <p>H Y` hYbXYfYf` a i gh` dfcj]XY` h Y` 7Yfh]Z]W]hY` cZ 7cbZcfa]hm cZ h Y` j Y\]WY` : cf` h`cgY` j Y\]WYg` \Uj]b [UWX]Yj YX` h Y` UVcj Ya Ybh]cbYX` ghUbxUfX` Zc`ck]b [U` hYVWb]W` i d [fUXY` h Y` a YUgi fYg` a i gh` VY XcW a YbhYX UbX j bWl XYX j b h Y hYbXYfz UbX h jg a i gh` VY j Yf]ZYX Vm Ub j bXYdYbXYbh h jfX dUfmi</p>
<p>Notes:</p> <p>¹⁾ 'Reference mass' means the mass of the vehicle in running order, as declared in the Certificate of Conformity, less the uniform mass of the driver of 75 kg and increased by a uniform mass of 100 kg;</p>

*** "%(K UHYf Vebgi a dh]cb fZcf`gk YYdYfg`h Uhi gY`k UHYf` Zcf`Xi ghigi ddfYgg]cbk`**

F U]h]cbU`Y`

Gca Y` gk YYdYfg` i gY` k UHYf` Zcf` Xi gh` gi ddfYgg]cbz` k \]W` a] [\h` YbHJ]` g] [b]Z]W]bh`k UHYf` Vebgi a dh]cb` K F 5D` ghi X]YX` h Y` k UHYf` Vebgi a dh]cb` cZ U` Vebghfi W]h]cb` g]hY` fK F 5Dz` &\$% E` UbX` h Y` k UHYf` Vebgi a dh]cb` cZ h Y` gk YYdYfg` k Ug` Ygh]a UHYX` hc` VY` %& ` cZ h Y` hc h U` XYa UbX` H Y` a cXY` i gYX` gdfUmYX`) `]hYg` cZ k UHYf` dYf` a]bi hY` UbX` h Y` a cbh` m` Vebgi a dh]cb` k Ug` %* ` a ` ` 5` h`ci [\` h` YgY` Z] [i fYg` W]bbch` VY` Vebg]XYfYX` fYdfYgYbH]j Y` cZ h Y` k UHYf` Vebgi a dh]cb` dfcZ] Y` cZ ghfYYh` WYUb]b [` gYfj]W`gz` h Ym` \Y` d` hc` ci h`]bY` h Y`]a dUVi` h` Uh` gk YYdYfg` a] [\h` \Uj Y`]b` k UHYf` Vebgi a dh]cb` 5WVfX]b [` hc` Ub` Yl dYfh]g` cd]b]cbz` h Y` k UHYf` Vebgi a dh]cb`]b` ghfYYh` WYUb]b [`]g` i gi U` mi` Ygg` h` Ub`) `]hYg` cZ k UHYf` dYf` a]bi hYz` h`ci [\`]h`]g` a U]b` m]bZi YbWVX` Vm h Y`

cdYfUhc f' UbX' Vmi fY []cbU' fYei Yghgž' Y" [" h\Y' ghfYYhg']b' DUf]g' UfY' hmd]WJ`mi
 ZUg\YX' k]h\ U` \] [\ `Ua ci bh'cZ' k UhYf' Vi h']b' h\Y' BcfX]WVWti bhf]Yg' gk YYd]b [`]
]g' XcbY' i gi U`mik]h\ci h'Ubmik UhYf'"

K F5D' WJgY' ghi Xmi dfcdcgYX' h\Y' i gY' cZ' gk YYdYfg' Yei]ddYX' k]h\` k UhYf'
 fYVfW' Uh]cb' gmghYa gž' g]bW' h\Y' Ygh]a UhYX' gUj]b [` dchYbh]U' k Ug' ' \$i`
 Uddfcl]a UhY`m' Gca Y' a Ubi ZJWti fYfg' cZYZf' a cXY'g' Yei]ddYX' k]h\` cdh]cbU'
 k UhYf' fYVfW' Uh]cb' gmghYa gž' Vch\`]b' Vta dUWti gk YYdYfg' UbX' hfi W_` a ci bhYX'
 gk YYdYfg' fbi V\Yf' A i b]W]dU`ž' &\$%+Łž' fbc\ bg]cbž' &\$%+Ł"

=h']g' dfcdcgYX' h\ Uh' U' hYV\ b]W' gdYVZ]W]h]cb' fYei]f]b [` U' k UhYf' fYVfW' Uh]cb'
 gmghYa `]g' gYh' Uh' Vta dfY\ Ybg]j Y' `Yj Yž' k \]Y' Ub' Uk UfX' W]hYf]cb' k ci `X'
 dfca ch' h\YgY' gmghYa g' Uh' Vta fY' `Yj Y'"

7f]hYf]U' dfcdcgU`

7cfY' W]hYf]U'	7ca dfY\ Ybg]j Y' W]hYf]U'
HYVb]W' gdYVZ]W]h]cb'	
	<p>HG) "K UhYf' fYVfW' Uh]cb' gmghYa g'</p> <p><i>If the contracting authority is requiring sweepers that use water for dust suppression</i></p> <p>Gk YYdYfg' a i gh' VY' Yei]ddYX' k]h\` U' k UhYf' fYVfW' Uh]cb' gmghYa ` a YUb]b [` U' gmghYa ` h\ Uh' fYVfW' UhY' dUfh' cZ' h\Y' k UhYf' h\ Uh']g' i gYX' Zcf' Xi gh' gi ddfYgg]cb'" h\Y' k UhYf']g' gdfUmYX' UbX' h\ Yb' fYa cj YX' hc [Yh\Yf' k]h\` h\Y' Xi gh' Vmi h\Y' gk YYdYf'" h\Y' a UW\]bY' Z]hYfg' h\Y' k UghYk UhYf' UbX']h']g' fYVfW' UhYX' hc' h\Y' k UhYf' hJb_`</p> <p>J Yf]Z]W]h]cb.`</p> <p>h\Y' hYbXYfYf' a i gh' dfYgYbh' h\Y' hYV\ b]W' g\ YYh' k \ YfY' h\Y' k UhYf' fYVfW' Uh]cb' gmghYa `]g' XYgW]VYX'"</p>
5k UfX' 7f]hYf]U'	
<p>57 ("K UhYf' fYVfW' Uh]cb' gmghYa g'</p> <p><i>If the contracting authority is requiring sweepers that use water for dust suppression</i></p> <p>Dc]bhg' k]` VY' Uk UfXYX' hc' gk YYdYfg' h\ Uh' UfY' Yei]ddYX' k]h\` U' k UhYf' fYVfW' Uh]cb'</p>	

<p>gmghYa`a YUb]b[`U`gmghYa`h`Uh`fYVfW`UhY` dUfh`cZ`h\Y`k`UhYf`h`Uh`]g`i`gYX`Zcf`Xi`gh` gi`ddfYgg]cb""`H\Y`k`UhYf`]g`gdfYUX`UbX` h\Yb`fYa`cj`YX`hc[`Yh`Yf`k`]h`h\Y`Xi`gh`Vm` h\Y`gk`YYdYf""`H\Y`a`UVX]bY`Z]hYfg`h\Y` k`UghYk`UhYf`UbX`]h`]g`fYVfW`UhYX`hc`h\Y` k`UhYf`hUb`_`</p> <p>J`Yf]Z]W]h]cb.`</p> <p>H\Y`hYbXYfYf`a`i`gh`dfYgYbh`h\Y`hYVXb]W` g\YYh`k`\YfY`h\Y`k`UhYf`fYVfW`Uh]cb` gmghYa`]g`XYgW]VYX""`</p>	
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*`"%)` **Bc]gY`Ya`]gg]cbg`**

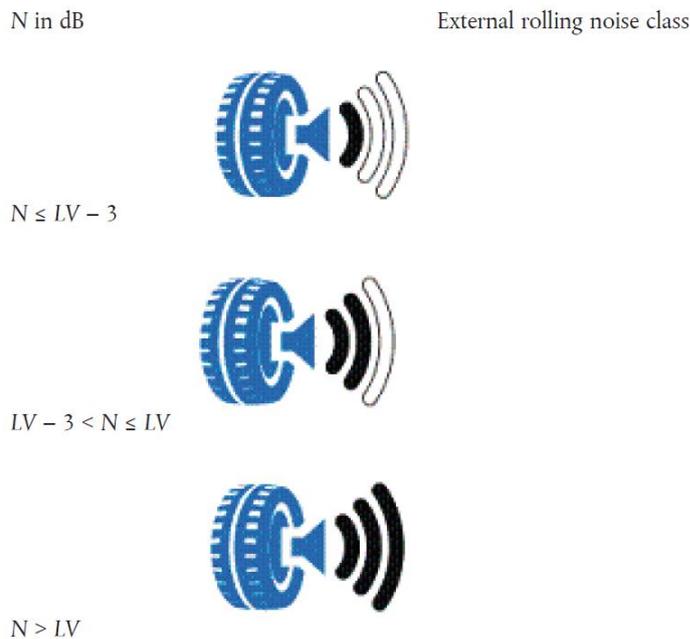
F`Uh]cbU`Y`

J`Y\]WY`bc]gY`W]b`\Uj`Y`g][`b]Z]W]b]h`bY[`Uh]j`Y`]a`dUWg`cb`h\Y`\YU`h`cZ`
fYg]XYbhgz`YgdYVU`m]b`W]gY`cZ`hfUZ]W]b`cf`bYUfVm`fYg]XYbh]U`UfYUg""`H\Y`
a`Uf`_`Yh]g\ci`X`h\YfYZcfY`[`fUXi`U`m]fYXi`W`h\Y`bc]gY`Yj`Y`g`cZVch`h\Y`hmfYg`
UbX`j`Y\]WY""`

HmfY`bc]gY`

J`Y\]WY`hmfY`bc]gY`]g`fY[`i`UhYX`Vm`FY[`i`Uh]cb`f97Ł`Bc`**`%#&\$-\$`UbX`h\Y`
`UVY`]b[`FY[`i`Uh]cb`f97Ł`Bc`%&&&#&\$-\$`ž`k`\]W`cV][`Yg`h\Y`hmfY`
a`Ubi`ZUW]fYf`hc`]bZcfa`h\Y`W`ghca`Yf`UVci`h`h\Y`YI`hYfbU`fc``]b[`bc]gY`WUgg`
Ug`Zc``ck`g.`

Figure 1: External rolling noise classes (LV = Limit Values)



H\Y' FY[i 'Uh]cb' f97Ł' Bc' %&&#&\$\\$- ' XcYg' bch' Udd' m' hc' fYhfYUXYX' hmfYgž' k \]W\ ' g\U'' Vta d'mi k]h\ ' h\Y' dfcj]g]cbg' cZ I B979' FY[i 'Uh]cb' %\\$- ' Ug' U' Vta di 'gcfm VtbX]h]cb' hc' VY' d'UWVX' cb' h\Y' a Uf_Yh' G]a]Uf' hc' h\Y' fc''b[' fYg]ghUbW\ ' W]hYf]cbž']h']g' dfcdcgYX' h\Uh' h\g' W]hYf]cb' WUb' VY' Vta d']YX' k]h\ ' Vch\ 'ck' 'bc]gY' hmfYg' UbX' fYhfYUXYX' hmfYg''

G]bW\ ' W ffYbh'mU'' hmfYg' \Uj Y' hc' a YYh' h\Y'']a]hg' gYh' Vm' FY[i 'Uh]cb' f97Ł' Bc' * %&#&\$\\$- ž' cb' m' h\Y' hc' d' W]hY[cfmcZ' h\Y' 'UVY'']b[' FY[i 'Uh]cb' fB≤' @' ' !' Ł' WUb' dfcj]XY' Ub' UXX]h]cbU'']bWbh]j Y'' =b' HUV'Y' ' ' h\Y'']a]hg' j U' i Yg' Zcf' 7% hmfYg' UWWŁfX]b[' hc' FY[i 'Uh]cb' f97Ł' Bc' * %&#&\$\\$- ' UfY'']ghYX'' H\Y' dfcdcgYX'']a]hg' h\Uh' UfY' ' ' X6' VY'ck' ' h\Y'']a]h' j U' i Yg' UfY' dfYgYbhYX']b' h\Y' 'Ugh' VŁ' i a b'' 7ca d']UbW\ ' k]h\ ' h\YgY'']a]hg' k]'' a YUb' h\Y' hmfYg' ZU'' k]h\]b' h\Y' VYgh' dYfZcfa]b[' WUgg' cZ' UVY'']b[' FY[i 'Uh]cb' f97Ł' Bc' %&&#&\$\\$- ' ''

Table 34: Limit values for C1 tyres according to Regulation 611/2009 and proposed limits

HmfY' WUgg'	Bca]bU' gYV]cb' k]Xh' fla a Ł'	@]a]h' fX6f5ŁŁ'	j U' i Yg'	DfcdcgYX' fX6f5ŁŁ'	]a]h'
7%5'	@%)'	+\$'		* +'	
7%6'	2%)' @&%)'	+%'		* ,'	
7%7'	2&%)' @&()'	+%'		* ,'	
7%8'	2&()' @&+)'	+&'		* -'	
7%9'	2&+)'	+()'		+%'	

H\Y' FY[i 'Uh]cb' f97Ł' Bc' %&&#&\$\\$- ']g' W ffYbh'mi bXYf' fYj]g]cb' UbX' \YbW\ ' h\g' W]hYf]cb' k]'' bYXX' hc' VY' i dXUH'YX' UWWŁfX]b[' m'

H\Y' W]hYf]cb']g' dfcdcgYX' hc' VY' U' hYVXb]W\ ' gdYW]Z]W]h]cb' cb' m' Uh' Vta dfY\Ybg]j Y'' Yj Y' ž' Zcf' h\Y' gU_Y' cZ g]a d']Z]b[' h\Y' VŁfY'' Yj Y'' k \]W\ ' k]'' ZcW' g'cb' ; < ; 'UbX' U]f' dc'' i HUbh'Ya]gg]cbg''

JY\]W'bc]gY'

H\Y' 8]fYVW]j Y' &\$\$+#(* #97' \Ug' VYYb' Ua YbXYX' Vm FY[i `Uh]cb' f9I E' Bc') (\$#&\$%(ž'k \]W'k]'']bhfCxI W'ghf]WVf'Ya]gg]cbg'`ja]hg'Zcf'j Y\]W'bc]gY']b' h\fyY' d\UgYg'' =b' h\Y' WUgY' cZ' \YUj m' Xi hm' j Y\]WYgž' FY[i `Uh]cb' f9I E' Bc') (\$#&\$%('gYhg'bc]gY'`ja]hg'Zcf' B' 'j Y\]WYg' VYhk Yyb' +- 'UbX', &'X6f5E'Zcf' d\UgY'%UbX']g'Udd']WV'Y'Zcf'bYk' j Y\]WYg'hmdYg'Zfca' '%>'m&\$%' "D\UgY'&' fFUb[Y'++'E', '%X6f5E'k]''VY'Udd']WV'Y'Zcf'bYk' j Y\]WY'hmdY'Zfca' '%>'m &\$&\$'UbX'Zcf'Z]fgh'fY[]ghfUh]cb'Zfca' '%>'m&\$&ž'UbX'd\UgY'' fFUb[Y'+*'E' +- 'X6f5E'k]''VY'Udd']WV'Y'Zcf'bYk' j Y\]WY'hmdY'Zfca' '%>'m&\$&('UbX'Zcf' Z]fgh'fY[]ghfUh]cb'Zfca' '%>'m&\$&' "H\Y'fY[i `Uh]cb' XcYg' bch']bVM XY' Ubmi dfcj]g]cb'hc'YI VM XY'j Y\]WYg'Zcf'gdYVU'di fdcgYgž']b' [YbYfU' "5WVtFX]b['hc' U' fYdcfh'Zfca' HBC' fHBCž' &\$%&ž' h\YfY' k Ug' hVW'bc'c[m Vta a YfVU'm Uj U]UV'Y'Zcf'g\]Y'X]b['UbX' YbWUdgi 'Uh]cb'Zcf' hfi W_g']b' &\$%ž' UbX' h\YfY' k YfY'a cXY'g'hUhž' ž'YX'd\UgY''`ja]hg'Uj U]UV'Y']b'h\Y'a Uf_YH'' H\YfYZcfYž' h\Y' Uk UfX' W]hYf]cb' Uh' Vta dfY\Ybg]j Y' `Yj Y']g' dfcdcgYX' hc' dfca chY'd\UgY'' 'Vta d']Ubhj Y\]WYg''

FcUX'gk YYdYfg'UfY'gi V'YVh'hc'bc]gY'a Uf_]b['cb`nž' UWVtFX]b['hc'h\Y'Ufh]WV' %' cZ' h\Y' 8]fYVW]j Y' &\$\$#%#(#97' " <ck Yj Yfž' h\Y' gh' Xm'cb' h\Y' gi]hUV']]hm'cZ' h\Y' WffYbh'gVtdY'UbX'`ja]h'j U'i Yg'cZ' 8]fYVW]j Y' &\$\$#%#(#97' Wff]YX'ci h'Vm HBC' fHBCž' &\$%*E' fYVta a YbXg' gYh]b[' `ja]h'j U'i Yg' hc' fcUX' gk YYdYfg'' 5dUfh'Zfca' h\Uhž' h\Y' 6'i Y' 5b[Y' W]hYf]U'Zcf'gk YYdYfg' fRAL-UZ 59: Low-Noise and Low-Pollutant Municipal Vehicles and Buses)'UfY'WffYbh'mVY]b[' fYj]gYX'hc'Yb\UbW' h\Y'fYXi W]cb'cZ'bc]gY'Ya]gg]cbg/'\ck Yj Yf' h\Y' dfcdcgU']g' gh]'' VY]b[' X]gW'ggYX'' G]bW' U'' h\Y' dchYbh]U' VYbVW'a Uf_g' UfY' i bXYf' X]gW'gg]cbž' bc' `ja]h'j U'i Yg' UfY' dfcdcgYX'Zcf'gk YYdYfg']b' h\]g' W]hYf]cb' dfcdcgU'ž' cb`m Ub' Uk UfX' W]hYf]cb' h\Uh'k ci `X' []j Y' dc]bhg' dfcdcfh]cbU`m hc' h\Y'bc]gY''Yj Y'g''

7f]hYf]U`dfcdcgU`Zcf`j`Y\]WYg`

7cfY`W]hYf]U`	7ca`dfY\`Ybg]j`Y`W]hYf]U`
HYWb]W`GdYV]Z]W]h]cbg`	
	<p>HG*`"HmfY`bc]gY` <i>(not to be used if, for safety reasons, tyres with the highest wet grip class, snow tyres or ice tyres are needed)</i> <i>Note: this criterion does not apply to special purpose vehicles</i></p> <p>H\Y`<8J`g`a`i`gh`VY`Yei`]ddYX`k`]h` UŁ`hmfYg`k`]h`YI`hYfbU`fc`]b[`bc]gY` Ya`]gg]cbg`Yj`Yg`X6`VY`ck`h`Y` a`Ul`]a`i`a`YghUV`]g\`YX`]b`FY[i`Uh]cb` f97Ł`Bc`*`*`%#&\$\$`5bbYI`=DUfh`7`"H`]g`]g`Yei`]j`UYbh`hc`h`Y`hcd`W]hY[`cfmfcbZ`h`Y` h`fY`Uj`U]UV`YŁ`cZ`h`Y`9I`hmfY`UVY` YI`hYfbU`fc`]b[`bc]gY`WUgg`"</p> <p>CF` VŁ`fYhfYUXYX`hmfYg` <i>Note: Regulation (EC) No 1222/2009 is currently under revision, and as part of this process, the European Commission has put forward proposal COM(2018) 296. This criterion will need to be updated according to the new legislation, once it is in force.</i></p> <p>J`Yf]Z]W]h]cb.`H\Y`hYbXYfYf`a`i`gh`dfcj`]XY`h`Y` UVY`cZ`h`Y`hmfY`UWŁ`fX]b[`hc`FY[i`Uh]cb`f97Ł` Bc`%&&&#&\$\$`Zcf`hmfYg`i`bXYf`W]gY`UŁ`cf`h`Y` Bch]W`cZ`Uddfcj`U`UWŁ`fX]b[`hc`5bbYI`%`cZ` I`B979`FY[i`Uh]cb`%\$`Zcf`fYhfYUXYX`hmfYg` fW]gY`VŁ`</p>
5k`UfX`7f]hYf]U`	
	<p>57)`"J`Y\`]W]h]bc]gY` <i>Note: this criterion does not apply to special purpose vehicles</i></p> <p>Dc]bhg`k`]VY`Uk`UfXYX`hc`h`Y`j`Y\]WYg`k`]h` bc]gY`Ya`]gg]cbg`VŁ`a`d]Ubh`k`]h`h`Y`D\`UgY` `]a`]hg`cZ`FY[i`Uh]cb`f9I`Ł`Bc`)(`\$#&\$(`"H`Y` bc]gY`Ya`]gg]cbg`k`]VY`hYghYX`UWŁ`fX]b[`hc`h`Y` 5bbYI`=cZ`FY[i`Uh]cb`f9I`Ł`Bc`)(`\$#&\$(`"</p> <p>J`Yf]Z]W]h]cb.` H\Y`hYbXYfYf`a`i`gh`dfcj`]XY`h`Y`7Yfh]Z]W]hY`cZ` 7cbZcfa`]hmicZ`h`Y`j`Y\]WY`"</p>
	<p>57*`"Gk`YYdYfg` Dc]bhg`k`]VY`Uk`UfXYX`hc`h`Y`gk`YYdYfg`k`]h` `ck`Yf`[i`UfUbhYX`gci`bX`dck`Yf`Yj`Y`Z` UWŁ`fX]b[`hc`h`Y`8]fYW]j`Y`&\$\$`#%`#97`</p>

	<p>J Yf]Z]VW]cb. H\Y' hYbXYfYf' a i gh' dfcj]XY' U' Vtdm' cZ h\Y' 79' a Uf_]b[' hc[Yh\Yf' k]h\ h\Y']bX]VW]cb' cZ h\Y' [i UfUbhYYX' gci bX' dck Yf' Yj Y' U' VtdfX]b[' hc' h\Y' 8]fYVW]j Y' &\$\$#% (#97' cZ h\Y' gk YYdYf''</p>
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*** !%*** **9ZZ]VW]bVmicZ dUfh]W`UH' a UHf' Vt`YV]cb' fZcf`**
gk YYdYfg! `7f]hYf]U'k]h Xfuk b`

F Uh]cbU'Y`

GhfYYh' gk YYdYfg' UfY' WUgg]Z]YX' Ug' gdYVWU' di fdcgY' j Y\]WYgž' UbX' h\Y' Ybj]fcb a YbhU']ggi Yg' UggcVUUhYX' k]h\ h\Y'f']ZY' VtWY' UfY' j Yfm g]a]Uf' hc' j Y\]WYg'' 5dUfh' Zfca' h\Uhž' h\Y' ghfYYh' gk YYdYfg' Vtbf]Vi hY' hc' U]f' ei U']mi]ggi Yg']b' i fVUb' UfYUg'' DUfh' cZ h\Y' dUfh]W`UH' a UHf' fDA' E' Ya]gg]cbg']b' V]h]Yg' Vt a Y' Zfca' 'bcbl' Yi \ Ui gh' gci fVW'gž' gi V\ U'g' k YUf' cZ j Y\]WY' dUfhgž' UbX' cZ h\Y' fcUX' gi fZUWž' UbX' h\Y' fYgi gdYbg]cb' cZ' Xi gh' XYdcg]hYX' cb' h\Y' dUj Ya Ybh'f=XUYU' ! `7G=7ž' &\$%* UŁ''

FcUX' gk YYdYfg' UfY' WffYbh'mi XYg][bYX' hc' fYXi W' Ua V]Ybh' DA %\$' Vt bW'bfU]cbgž' k \]Y' h\Uh' k Ug' bch' i gi U'mi U' Vt a a cb' dfUW]VW']b' h\Y' dUgh' f=XUYU' ! `7G=7ž' &\$%* UŁ'' H\Y' dUfUa YhYfg' h\Uh' UZZYVh' h\Y' dchYbh]U' fYXi V]cb' cZ DA %\$' Ya]gg]cbg' UfY' h\Y' fYa' cj U' YZZ]VW]bVmicZ h\Y' gk YYdYf' UbX']hg' UV']]mi hc' fYHU]b' h\Y' dUfh]WYg''

H\Y' @= 9' dfc' ^VW' f5 = F I G9fi]g' a YUbh'hc']XYbh]Zmi h\Y' a cgh' YZZYVW]j Y' a]h[Uh]cb' a YUgi fYg' hc' fYXi W' DA ' Yj Y'g']b' i fVUb' UfYUg']b' Gci h\Yfb' 9i fcdYUb' UbX' A YX]hYffUbYUb' Vt i bh]Yg' f9i fcdYUb' 7ca a]gg]cbž' &\$%* Ł'' H\Y' XY']j YfUV'Y' *The scientific basis of street cleaning activities as road dust mitigation measure* f=XUYU' ! `7G=7ž' &\$%* VŁ' XYgW]VYX' h\Y' h\fYY' a U]b' mdYg' cZ fcUX' gk YYdYfg' i gYX']b' 9i fcdY''

- A YVW Ub]W' Vfcc a' gk YYdYfg' fYa' cj Y' XYVf]g' Vmi gk YYd]b[' a UHf]U' k]h\ [i hYf' Vfcc a' g' fYUfk UfX']bhc' h\Y' dUh' cZ U' d]W! i d' Vfcc a' " H\Y' d]W! i d' Vfcc a' gk YYdg' h\Y' a UHf]U' a' cj]b[']h' i dk UfX' k]h\ U' Vt bj Ymcf' gmghYa']bhc' U' \ cddYf''
- J UW i a' gk YYdYfg' \ Uj Y' [i hYf' Vfcc a' g' UbX' ghfcb[' j UW i a' \ YUXfbgŁ' Zcf' d]W]b[! i d' Vch\ ' Uf[Y' UbX' ga U' ' a UHf]U'g'' K \]Y' gca Y' a cXY'g' i gY' k UHf' Ug' U' Xi gh' gi ddfYggcfž' ch\ Yfg' Wb' cdYfUH']b' U' Xfma cXY''
- F Y[YbYfUh]j Y! U]f' gk YYdYfg' UfY' Yei]ddYX' k]h\ [i hYf' Vfcc a' g' UbX' U' d]W! i d' \ YUX'' H\Y' [i hYf' Vfcc a' g' X]fYVh' a UHf]U'g' hck UfXg' h\Y' d]W! i d' \ YUX'' H\Y' fY[YbYfUh]j Y! U]f' dfc' Vgg' V'ck' g' U]f']bhc' cbY' YbX' cZ h\Y' \ cf]ncbhU' d]W! i d' \ YUX' UbX' cbhc' h\Y' dUj Ya Ybh' X]g' cX[]b[' a UHf]U'g' Ybh' U]bYX' k]h\]b' WUW'g' UbX' i bYj Yb' dUj Ya Ybh' H\Y' ch\ Yf' YbX' cZ h\Y' d]W! i d' \ YUX' \ Ug' U' gi V]cb' \ cgY' h\Uh']a a YX]UH' m] UW i a' g' ci h' h\Y' a UHf]U'g' k]h\]b' h\Y' d]W! i d' \ YUX']bhc' U' \ cddYf''

H\Y' a U]b' Vt bW' g]cbg' cZ 5]fi gY' fYdcfhg' k YfY' h\Uh' h\Y' fYa' cj U' YZZ]VW]bVmi]a dfcj Yg' k]h\]b' WYUg]b[' dUfh]WYg' g]nYž' UbX' h\Uh' j UW i a' ! Ugg]ghYX' UbX'

fY[YbYfUh]j Y`U]f`gk YYdYfg`UfY`a cfY`gi]HUV`Y`Zcf`fYa cj]b[`Z]bYf`gYX]a Ybhgž`
k \]Y`a YVX Ub]W]`gk YYdYfg`UfY`h`Y`VYgh`V`c]W`Zcf`Uf[Yf`dUfh]WVg`f=XUYU`!
7G=7ž`&\$%* UŁ" H\]g`]bZcfa Uh]cb`gi [[Yghg`h`Uh`YUW`h`YV`bc`c[m]g`gi]HUV`Y`
Zcf`YUW`dUfh]W`Uf`g]h`Uh]cb`UbX`WVbbch`VY`Včbg]XYfYX`VYhYf`h`Ub`h`Y`
ch`Yfg" A cgh`cZ`h`Y`fYVč`a`a`YbXUh]cbg`cZ`5]fi`gY`fYdcfhg`UfY`VUgYX`cb`VYgh`
dfUW]WVg`cb`ghfY`Yh`WYUb]b[""

A Ubi ZUVi fYfg`i`gY`9B`%) (&-!'`.&\$%)`hc`hYgh`h`Y`dYfZcfa UbW`cZ`h`Y]f`
gk YYdYfgž`UbX`h`Y`a`YUgi`f]b[`dfcW`Xi`fY`]g`W`ffYbh`mi`i`bXYf`fYj`]g]cb`hc`
]bWi`XY`a`YUgi`fYa`Ybhg`cb`DA`&)"`" `G]bW`9I`b]hYX`Ug`i`gh`ghUfhYX`bck`k`]h`
a`YUgi`fYa`Ybhg`cZ`DA`&)"`UWVčfX]b[`hc`9B`%) (&-!'`.&\$%)`gca`Y`Z`fh`Yf`h]a`Y`
]g`bYYXYX`hc`[`Yh`YI`dYf]YbWVg`]Z`h`]g`hYgh`a`Yh`cX`UbX`h`Y`hYgh`a`UhYf]U`]g`
Udd`]WV`Y`Zcf`h`Y`a`YUgi`fYa`Ybh`cZ`DA`&)"`" `6Yg]XYgž`h`Y`9I`b]hYX`DA`!`HYgh`]g`
W`ffYbh`mi`h`Y`cb`m`WVfh]Z]W]h]cb`Uj`U]UV`Y`cb`h`Y`9I`a`Uf`_Yh`UbX`h`Y`UW`cZ`
UVcfUhc]f]Yg`WVffm]b[`ci`h`h`Y`gY`hYghg` \]bXYfg`h`Y`j`Yf]Z]W]h]cb`cZ`h`Y`
W]hYf]cb"

;]j`Yb`h`Y`g]h`Uh]cb`XYgW]VYX`UVcj`Yž`h`Y`W]hYf]cb`]g`dfcdcgYX`hc`VY`
k`]h`XfUk`bž`U`gc`Zcf`Vč`a`dUVi`gk`YYdYfg`UbX`gYfj`]W`ZYYhg"

@ Vf]WVbh`c]g`

H\]g`W]hYf]cb`fY`UhYX`hc`ck`j`]gVčg]hm`i`Vf]WVbhg`f]@`@`]g`fY`Yj`Ubh`hc`
]a`dfcj`Y`h`Y`Yb[]bY`dYfZcfa`UbW`ž`UbX`]h`]g`U`Včgh`YZZYVW]j`Y`cdh]cb`f`f`7ž`
&\$%* UŁ" <ck`Yj`Yfž`h`Y`hmdY`cZ`i`Vf]WVbh`cZ`h`Y`j`Y\]WV`]g`gY`Xca`]bWi`XYX`]b`
h`Y`h`YV`b]WV`g\`YYhgž`UbX`gca`Yh]a`Yg`]h`]g`bch`U`h`YV`b]WV`ZYUh`fY`cZZYfYX`hc`
h`Y`Včbgi`a`Yfg" H`YfYZcfYž`]h`]g`dfcdcgYX`hc`Xfcd`h`]g`W]hYf]cb`Zcf`j`Y\]WYgž`
Vi`h`_YYd`]h`Ug`dUfh`cZ`h`Y`a`U]bhYb`UbW`W]hYf]U`cZ`h`Y`gYfj`]W`WVhY[cf]Yg"

* "& Gyfj JW ZYYhg"

K \YfY' gyfj JWg' YbhU]]b[' h\Y' XYd`cma Ybh' cZ j Y\]WYg' UfY' V\bfUWYX' ci hZ' W]hYf]U' \Uj Y' VYYb' fYV\ta a YbXYX' Zcf' gyfj JW' ZYYhYa d`cmYX']b' W]ffm]b[' ci h' h\Y' gyfj JW''

* "&%"% Gi a a UfmcZghU_ Y\ c`XYfg' V\ta a Ybhg' Zfca ' 5 < K ; &'

5' ghU_ Y\ c`XYf' gi [[YghYX' h\Uh' h\Y' W]hYf]cb' cb' U]f' dc`i hUbh' Ya]gg]cbg' g\ci 'X']bW] XY' U' bchY' U`ck]b[' h\Y' V\bfUW] Ui h\cf]h]Yg' hc']bWYUgY' h\Y' dYfWbhU[YgZ' UWV\FX]b[' hc' `cW' UbX' fY[]cbU' a Uf_Yhg'''' <ck Yj YfZ' h\Y' dYfWbhU[Yg' UfY' U'fYUXm] j Yfm Ua V]h]ci g' UbX' UfY' U][bYX' k]h\ h\Y' W]hYf]U' k]h\]b' 9I ' ; DD' FcUX' hfUbgdcfh''

* "&"& ; < ; 'Ya]gg]cbg'

F U]cbU'Y'cZ h\Y' W]hYf]U' dfcdcgU' Zcf' gyfj JW' ZYYhg'

=b' hYfa g' cZ U'hYfbU]h] Y' Z' Y'g' 9i fcghU] ghU]gh]Vg' g\ck' h\Uh' h\Y' g\UfY' cZ U'hYfbU]h] Y' Z' Y'g']g' j Yfm']a]hYX']b' @7J' UbX' dUfh]W' Uf`m bUffck']b' \YUj mi Xi hmi j Y\]WYg' f\7Z' &\$%* U\'' h\Y' Uj YfU[Y']ZYh]a Y' cZ j Y\]WYg']g' U' _Ymi dUfUa YhYf']b' h\Y' fYd'UW]a Ybh' fU]c' cZ ZYYhg'' 5WV\FX]b[' hc' 5795Z' h\Y' Uj YfU[Y']ZYh]a Yg' cZ @7J' g' UbX' <8J' g' hfi W_g']b' &\$%) 'k YfY' %\$'+ ' UbX' %%"+' mYUfgZ' fYgdYW]j Y'mi f5795Z' &\$%+L'' h\YfYZcfYz' h\Y' W]hYf]U' dfcdcgU' g\ci 'X' fYZYVh' h\]g' a Uf_Yh'g]h] U]cb'' h\Y' h\Yfg\c'Xg' cZ &\$i ' UbX' ' &i ' cZ h\Y' ZYYh' UfY' a YUbh' hc' gY'YVh' h\Y' hYbXYfYfg' h\Uh' \Uj Y']bj YghYX' hc' fYbcj U]h' h\Y]f' ZYYhg' ei]W_YfZ' d\Ug]b[' ci h' Ygg' YZ]WYbh' hYV\bc`c[]Yg'' h\YgY' j U'i Yg' UfY' U][bYX' k]h\ h\Y' Ugh' W]hYf]U' dfcdcgU' Zcf' h\Y' fYj]g]cb' cZ h\Y' 9I ' ; DD' Zcf' hfUbgdcfh' f\7Z' &\$% L'' h\Y' W]hYf]cb' dfcdcgU' U'gc']bW] XYg' X]ZYfYbh' mYUf' mi h]Yfg' Zfca ' &\$%- ' hc' &\$&% hc' fYZYVh' h\Y' a Uf_Yh' Yj c'i h]cb' UbX' h\Y' UW]cb' cZ bU]i fU' ZYYh' fYd'UW]a Ybh' : cf' <8J' g' UbX' @W]hY[cfm] j Y\]WYgZ' h\Y' dYfWbhU[Y']g']bWYUgYX' , i ' UbX' %\$i ' YUW\ mYUfZ' k \]W\ k ci 'X' VY' h\Y' fYd'UW]a Ybh' fU]h' Zcf' j Y\]WYg' k]h\ Ub' Uj YfU[Y']ZYh]a Y' cZ %& UbX' %\$' mYUfgZ' fYgdYW]j Y'mi' =b' h\Y' W]gY' cZ @8J' gZ' h\Y' W]hYf]cb' fYZYfg' hc' h\Y' dfcdcgU' cZ HG% 7C. & Ya]gg]cbg' Zcf' h\Y' W]hY[cfm] fDi fV\UgYz' YUgY' cf' fYbhU' cZ @7J' gficZ h\Y' 9I ' ; DD' W]hYf]U' Zcf' hfUbgdcfhZ' k \]W\ 'gYhg' h]Yfg' hc']bWYUgY' h\Y' Ua V]h]cb' 'Yj Y' mYUf' mif\7Z' &\$% L''

7mW\c []gh]Vg' \Ug' XYa cbghfU]hYX']hg' W]dUV]]mi hc' cdYfU]h']b' i fVUb' UfYUg'' 5WV\FX]b[' hc' 7=] =H5Gz' (&i ' cZ U'`a chcf]nYX' hf]dg']b' i fVUb' UfYUg' V\i 'X' VY' g\]Z]hYX' hc' `c []gh]Vg' Vmi V]W]WY' fh\]g' V\ffYgdcbXg' hc' &) i ' cZ U'` hf]dgL' f9DCA A z' &\$%&L'' h\Y' dfc'YVh' Cyclelogistics ahead' [U]h\YfYX' gYj YfU' Yl Ua d'Yg' cZ a i b]W]dU']h]Yg' f]bW] X]b[' B%oYgZ' NUXUfZ' GhfUgVci f[z' ; fUnZ' GUb' GYVUgh]UbZ' UbX' GYj]`U\ h\Uh' i gY' W]f[c' V_Yg' Zcf' ghfYYh' WYUb]b[' fBi ghf]Ub' A cV]]mi F YgYUfV\z' &\$%(Lz' fHfU'YVh' A cV]]mi A UbU[Ya YbhZ' &\$%+L'' =h' U'gc' fYV\ta a YbXg' h\Uh' h\Y' a i b]W]dU']h]Yg' a U_Y' i gY' cZ h\]g' a YUgi fY' hc' dfcj]XY' h\Y]f' a i b]W]dU' gYfj]WYg' fK f][\hcBz' &\$%+L'' h\YfYZcfYz']h']g' dfcdcgYX' Ug'

hYVXb]WU`gdYVZ]WU]cbž'fYei]f]b['h\Uhi h\Y' ZYYhi VčbHJ]bg' WVVYg' UbX' WVVY'
hfU]Yfgž'k]h]b' h\Y' ZUa Yk cf_ 'cZ h\Y' Ya]gg]cbg' a]b]a]gUh]cb' a YUgi fYg'gYh'
Vmi h\Y' HG% 9bj]fcba YbHJ' a UbU[Ya Ybhi dfUW]VYg' k]h]b' h\Y' Vča a cb'
W]hyf]U' Zcf'gYfj]V' WUhy[cf]Yg'fgYY'gYV]cb'+ "&Ł"

7f]hYf]U`dfcdcgU`Zcf`gYfj]W`ZYYhg`

7cfY`W]hYf]U`	7ca`dfY\`Ybg]j`Y`W]hYf]U`
<p>HYWb]W]`GdYVWZ]W]h]cb` (These criteria apply only if the operators owns or leases the service fleet)</p>	
<p>HG%"; <; `Ya]gg]cbg`</p> <p>: cf`<8J`g`UbX`gdYVW]U`di`fdcgY`j`Y\]WYg.`</p> <p>H\Y`ZYYh`a`i`gh`VY`Vta`dcgYX`Vm`Zc`ck`]b[`g\UfYg`cZ`j`Y\]WYg`Yei`]ddYX`k`]h`cbY`h\Y`Y][`]V`Y`hYVWbc`c[`]Yg`gYh`Vm`h\Y`VtfY`HG%`HYWbc`c[`]W]`]a`dfcj`Ya`Ybh`cdh]cbg`hc`fYXi`W` ; <; `Ya]gg]cbg` cZ`j`Y\]WYg`fgY`gYVW]cb`\$E`</p> <ul style="list-style-type: none"> • &\$%-`&\$i` • &\$&\$.`&`,`i` • &\$&%`*`i` • &\$&&.`(`,`i` <p>: cf`@`W]hY[`cfmj`Y\]WYg.`</p> <p>H\Y`ZYYh`a`i`gh`VY`Vta`dcgYX`Vm`Zc`ck`]b[`g\UfYg`cZ`Y`VWf]W]`Y\]WYg`</p> <ul style="list-style-type: none"> • &\$%-`&`i` • &\$&\$.`)`i` • &\$&%`(`i` • &\$&&.`)`i` <p>: cf`@7J`g`</p> <ul style="list-style-type: none"> • %&i`cZ`h\Y`ZYYh`hc`VY`i`gYX`i`bXYf`h\Y`VtbhfUVh`a`i`gh`Vta`d`m`k`]h`h\Y`VtfY`HG%`7C`&`Ya`]gg]cbg`Zcf`h\Y`W]hY[`cfm]fDi`fVW`UgYz`YUgY`cf`fYbhU`cZ`@7J`gfi`cZ`h\Y`9i` ; DD`W]hYf]U`Zcf`fcUX`hfUbgdcfh` <p>H\Y`h]Yf`Udd`]WV`Y`k`]`VtfYgdcbX`hc`h\Y`mYUf`h`Uh`h\Y`W]`Zcf`hYbXYf`]g`Ui`bVWYX`</p> <p>J`Yf]Z]W]h]cb.`gUa`Y`Ug`h\Y`HG%`cZ`j`Y\]WYg`hc[`Yh`Yf`k`]h`h\Y`]gh`UbX`hYVWb]W]`g\YYhg`cf`Wfh]Z]W]hYg`cZ`VtbZcfa`]mi`cZ`h\Y`k`c`Y`ZYYh`</p>	<p>HG%"; <; `Ya]gg]cbg`</p> <p>: cf`<8J`g`UbX`gdYVW]U`di`fdcgY`j`Y\]WYg.`</p> <p>H\Y`ZYYh`a`i`gh`VY`Vta`dcgYX`Vm`Zc`ck`]b[`g\UfYg`cZ`j`Y\]WYg`Yei`]ddYX`k`]h`cbY`h\Y`Y][`]V`Y`hYVWbc`c[`]Yg`gYh`Vm`h\Y`VtfY`HG%`HYWbc`c[`]W]`]a`dfcj`Ya`Ybh`cdh]cbg`hc`fYXi`W` ; <; `Ya]gg]cbg` cZ`j`Y\]WYg`fgY`gYVW]cb`\$E`</p> <ul style="list-style-type: none"> • &\$%-`&`i` • &\$&\$.`(\$`i` • &\$&%`(``,`i` • &\$&&.`)`*`i` <p>: cf`@`W]hY[`cfmj`Y\]WYg.`</p> <p>H\Y`ZYYh`a`i`gh`VY`Vta`dcgYX`Vm`Zc`ck`]b[`g\UfYg`cZ`Y`VWf]W]`Y\]WYg`</p> <ul style="list-style-type: none"> • &\$%-`(\$`i` • &\$&\$.`)`\$`i` • &\$&%`*`\$`i` • &\$&&.`+`\$`i` <p>: cf`@7J`g`</p> <ul style="list-style-type: none"> • %&i`cZ`h\Y`ZYYh`hc`VY`i`gYX`i`bXYf`h\Y`VtbhfUVh`a`i`gh`Vta`d`m`k`]h`h\Y`VtfY`HG%`7C`&`Ya`]gg]cbg`Zcf`h\Y`W]hY[`cfm]fDi`fVW`UgYz`YUgY`cf`fYbhU`cZ`@7J`gfi`cZ`h\Y`9i` ; DD`W]hYf]U`Zcf`fcUX`hfUbgdcfh` • %&i`cZ`h\Y`ZYYh`hc`VY`i`gYX`i`bXYf`h\Y`VtbhfUVh`a`i`gh`Vta`d`m`k`]h`h\Y`VtfY`HG%`7C`&`Ya`]gg]cbg`Zcf`h\Y`W]hY[`cfm]fDi`fVW`UgYz`YUgY`cf`fYbhU`cZ`@7J`gfi`cZ`h\Y`9i` ; DD`W]hYf]U`Zcf`fcUX`hfUbgdcfh` <p>H\Y`h]Yf`Udd`]WV`Y`k`]`VtfYgdcbX`hc`h\Y`mYUf`h`Uh`h\Y`W]`Zcf`hYbXYf`]g`Ui`bVWYX`</p> <p>J`Yf]Z]W]h]cb.`gUa`Y`Ug`h\Y`HG%`cZ`j`Y\]WYg`hc[`Yh`Yf`k`]h`h\Y`]gh`UbX`hYVWb]W]`g\YYhg`cf`Wfh]Z]W]hYg`cZ`VtbZcfa`]mi`cZ`h\Y`k`c`Y`ZYYh`</p>
<p>HG&`7mW]`c[`]gh]Vg`</p> <p>fgUa`Y`Zcf`VtfY`UbX`Vta`dfY\`Ybg]j`Y`E`</p> <p>(in cities where the urban infrastructure is suitable).</p> <p>H\Y`hYbXYfYf`a`i`gh`cZ`Yf`U`gYfj`]W]`ZYYh`h`Uh`]bW]`XYg`h\Y`i`gY`cZ`VW]WYg`UbX`VW]W]`hfU]`Yfgz`k`\]W]`a`Um`i`VY`Y`VWf]W]`mi`dck`Yf`Ugg]ghYX`VW]WYg`hc`a`]b]a`]gY`h\Y`i`gY`cZ`a`chcf]gYX`j`Y\]WYg`UW]`fX]b[`hc`h\Y`a`YUgi`fYg`hc`a`]b]a`]gY`h\Y`Ybj`]fcb`a`YbhU`]ggi`Yg`gYh`Vm`h\Y`HG%`</p>	

<p>9b] fcb a YbhU` a UbU[Ya Ybh dfUW]Wg` k]h`]b` h`Y` Wta a cb` W]hYf]U` Zcf` gYfj]W` W]hY[cf]Yg` fgYY` gYV]cb` + "&L`</p> <p>J Yf]Z]W]h]cb. ` H`Y` h`YbXYfYf` k]` dfYgYbh h`Y` gdYV]Z]W]h]cbg` cZ` h`Y` gYfj]W` ZYYh` UbX` h`Y` XYgW]dh]cb` cZ` h`Y` k Um`h` Uh` W]WYg` UbX` W]WY` hfU]` Yfg` k]` VY` i` gYX` hc` a]b]a]gY` h`Y` i` gY` cZ` a chcf]gYX` j` Y`]WYg`</p>
<p>HG` " J Y`]WY` hmfYg` E` fc`]b[` fYg]ghUbW`</p> <p><i>f(Same for core and comprehensive)</i></p> <p><i>Note: this criterion is not applicable to special purpose vehicles, i.e. truck-mounted sweepers</i></p> <p>5` h`Y` j` Y`]WYg` a` i` gh` VY` Yei`]ddYX` k]h` hmfYg` Wta d`]Ubh` k]h` HG` ` cb` j` Y`]WY` hmfYg` Ug` XYZ]bYX`]b`]b` h`Y` gYV]cb` * "%`</p> <p>J Yf]Z]W]h]cb. `</p> <p>GUa` Y` Ug` HG` ` cb` j` Y`]WY` hmfYg` Ug` XYZ]bYX`]b`]b` h`Y` gYV]cb` * "%` hc[` Yh` Yf` k]h` h`Y`]gh` UbX` h`YV]b]W]` g` Y]Yfg` cZ` h`Y` k` \ c` Y` ZYYH`</p>
<p>HG` ("` HmfY` DfYggi` fY` A` cb]hcf]b[` GmghYa` g` fHDA` GL` <i>f(Same for core and comprehensive)</i></p> <p><i>Note: this criterion is not applicable to special purpose vehicles, i.e. truck-mounted sweepers</i></p> <p>5` h`Y` @7` J` g` UbX` \` YUj` mXi` hmj` Y`]WYg` a` i` gh` VY` Yei`]ddYX` k]h` gmghYa` g` Wta d`]Ubh` k]h` HG` &` cb` HDA` G` Ug` XYZ]bYX`]b` h`Y` gYV]cb` * "%`</p> <p>J Yf]Z]W]h]cb. `</p> <p>GUa` Y` Ug` HG` &` cb` HDA` G` Ug` XYZ]bYX`]b` h`Y` gYV]cb` * "%` hc[` Yh` Yf` k]h` h`Y`]gh` UbX` h`YV]b]W]` g` Y]Yfg` cZ` h`Y` k` \ c` Y` ZYYH`</p>
<p>HG` " :` i` Y` g` <i>f(Same for core and comprehensive)</i></p> <p><i>Note: this criterion is applicable only if the contracting authority qualifies dedicated natural gas vehicles as eligible technology and the tenderer offers dedicated natural gas vehicles to comply with TS1 of vehicles fgYY` gYV]cb` * "%` %L` The contracting authority may set higher percentages of renewable fuel supply according to the available supply in their national or regional market.</i></p> <p>5h` YUgh` %` i` ` cZ` h`Y` a` Yh` UbY` gi` dd` mia` i` gh` VY` fYbYk` UV` Y` a` Yh` UbY`</p> <p>J Yf]Z]W]h]cb. `</p> <p>H`Y` h`YbXYfYf` a` i` gh` dfcj`]XY` h`Y` WtbhfUW]h]g]k`]h` ` gi` dd`]Yff]g]k` UbX` h`Y` XYgW]dh]cb` UbX` h`YV]b]W]` gdYV]Z]W]h]cbg` cZ` h`Y` dfcXi` W]cb` UbX` h`Y` XYX]W]hYX` Z` Y` gi` dd` migmghYa` "</p>
<p>5k` UfX` 7f]hYf]U` <i>(These criteria apply only if the operators owns or leases the service fleet)</i></p> <p>57%` ;` <` ;` Ya`]gg]cbg` <i>f(Same for core and comprehensive)</i></p> <p>Dc]bhg` k]` VY` Uk` UfXYX` hc` h`Y` ZYYh` hc` VY` i` gYX` i` bXYf` h`Y` WtbhfUW]` k]h` dfcdcfh]cb` cZ` j` Y`]WYg` fi` E` Uf[` Yf` h`Ub` h`Y` HG%` ;` <` ;` Ya`]gg]cbg]`]b` dfcdcfh]cb` hc` h`Y` Yi` Wgg` cj` Yf` h`Y` HG%`</p> <p>J Yf]Z]W]h]cb. `</p> <p>GUa` Y` Ug` HG%`</p>

*** "&" 5]f`dc``i HUbhYa]gg]cbg`**

F Uh]cbU`Y`

G]a]Uf`m`hc` h`Y` ; < ; `Ya]gg]cb` W]hYf]Už` h`Y` W]hYf]U` cb` U]f` dc``i HUbh Ya]gg]cbg` UbX` 9i fc` Vta d`]UbW` g\ci` X` VY` gYh` Ug` U` dfcdcfh]cb` cZ` h`Y` ZYYH` H`Y` Uj` YfU[Y` g\UfY` cZ` 9i fc` J` = \YUj` m`Xi` hmj` Y\]WYg`]b` h`Y` W` ffYbh` ZYYhg`]g` , i` f`KUH` Z`fca` =77Hž` 5795` UbX` C` =75ž` 9i` !&, `UbX` 9: H5` Uj` YfU[YL` A` cfY` h`Ub` * \$i` `cZ` h`Y` \YUj` m`Xi` hmj` Y\]WYg` i` g]b[`X]YgY`]g` gh]` `Yei`]ddYX` k`]h` 9i fc` = f]a` d`Ya` YbhYX`]b` &\$%\$Łž` %a` `k`]h` 9i fc` = f]b` &\$%) Ł` UbX` %) i` Vta d`]Yg` k`]h` 9i fc` J` H`Y` Uj` YfU[Y` U[Y` cZ` h`Y` Vi` g` ZYYh` \Ug` VYYb`]bWYUg]b[`h`Y` Ugh` mYUf` hc` fYUW`)) i` cZ` Vi` gYg` UVcj` Y` %\$` mYUfg` UbX` Ygg` h`Ub` %\$i` VY`ck` &` mYUfg` K`]h` fY[UfXg` cZ` @7J` gž`)) i` cZ` h`Y` X]YgY` ZYYh`]b` &\$%) Vta d`]YX` k`]h` 9i fc` (`cf` VY`ck` UbX` %) i` a` Yh` 9i fc` * " =b` h`Y` WUgY` cZ` @ W]hY[cfmj` Y\]WYgž` h`Y` g\UfYg` cZ` a` cdYX` UbX` a` chcfW]WYg` Vta d`m]b[`k`]h` 9i fc` `]b` &\$%%`k` YfY` *) i` UbX` * \$i` fYgdYW]j` Y` mifb` F` 7ž` &\$%` UŁ`

=h`]g` dfcdcgYX` h`Uh` U` j` Y\]WYg` Vta d`m`k`]h` 9i fc` J` #) #` `Uh` VtfY` `Yj` Yž`]b` cfXYf` hc` dfYj` Ybh` h`Y` i` gY` cZ` `ck` dYfZcfa` UbW` j` Y\]WYg` " 5` a`]b]a` i` a` dYfWbhU[Y` cZ` (\$i` `cZ` 9i fc` J` =#` #(`]g` dfcdcgYX` Zcf` VtfY` UbX` * \$i` `Zcf` Vta` dfY\Ybg]j` Y` Yj` Y` H`Y` fYd`UW`a` Ybh` cZ` j` Y\]WYg` k`]` bUhi` fU`m`]bWYUgY` h`Y` dYbYhfUh]cb` cZ` 9i fc` (#` #J` =]b` h`Y` ZYYhgž` UbX` h`YfYZcfY` h`YgY` dYfWbhU[Yg` bYXX` hc` f]gY` mYUf`m`hc` a` U]bhU]b` h`Y` gUa` Y` Ua` V]h]cb` `Yj` Y` : cf` h`]g` fYUgcbž` h`Y` W]hYf]U` dfcdcgU`]bW] XYg` mYUf`m`]bWY`a` Ybhg` cZ` %\$i` `Zcf` @8J` g` UbX` @ W]hY[cfmj` Y\]WYg` UbX` , i` `Zcf` Vi` gYg` H\]g` k`]` gh]a` i` UH` h`Y` UWY` YfUh]cb` cZ` h`Y` fYd`UW`a` Ybh` fUH` hc`]bWYUgY` h`Y` g\UfY` cZ` 9i fc` J` =#` #(` j` Y\]WYg`

H`Y`gY` hYVb]W]` gdYV]W]h]cbg` UfY` Vta d`Ya` YbhYX` k`]h` Uk` UfX` W]hYf]U` hc` dfca` chY` U` VYhYf` dYfZcfa` UbW` cZ` h`Y` ZYYH` =h`]g` Ugc` dfcdcgYX` U` dYfWbhU[Y` cZ` j` Y\]WYg` Vta d`m]b[`k`]h` 9i fc` * X! H9A D` ghUbXUfX` Uh` Vta` dfY\Ybg]j` Y` Yj` Yž` hc`]bWbh]j`]gY` h`Y` dYbYhfUh]cb` cZ` h`Y` 9i fc` * X` ghU[Y` 9i fc` * X! H9A D` ghUbXUfX` fYei`]fYg` U` fYU` Xf]j`]b[`Ya`]gg]cbg` VtbZcfa`]m] ZUWcf` cZ` &"%`

7f]hYf]U` DfcdcgU`

7cfY` W]hYf]U`	7ca` dfY\ Ybg]j` Y` W]hYf]U`
HVWb]W]` GdYV]W]h]cb` (These criteria apply only if the operators owns or leases the service fleet)	
<p>HG* "5]f`dc``i HUbhYa]gg]cbg`</p> <p>.</p> <p>5` < 8J` i` gYX`]b` W]ffn]b[`ci` h` h`Y` gYfj`]W` a` i` ghia` YYh`Uh` YUgh` 9i` fc` J` "</p> <p>.</p> <p>&\$%- . (, i` `cZ` < 8J` a` i` ghia` YYh` 9i` fc` J` ="</p> <p>&\$&\$.) * i` `cZ` < 8J` a` i` ghia` YYh` 9i` fc` J` ="</p>	<p>HG* "5]f`dc``i HUbhYa]gg]cbg`</p> <p>.</p> <p>HG* "%` 5` < 8J` i` gYX`]b` W]ffn]b[`ci` h` h`Y` gYfj`]W` a` i` ghia` YYh`Uh` YUgh` 9i` fc` J` "</p> <p>.</p> <p>&\$%- . * , i` `cZ` < 8J` a` i` ghia` YYh` 9i` fc` J` ="</p> <p>&\$&\$. + * i` `cZ` < 8J` a` i` ghia` YYh` 9i` fc` J` ="</p>

<p>&\$&% * (i 'cZ<8J'a i gh'a YYh'9i fc'J ='</p> <p>&\$&&. +&i 'cZ<8J'a i gh'a YYh'9i fc'J ='</p> <p>K \YfY' j Y\]WYg' UfY' bch' Wfh]ZYX' Ug' a YYh]b['9i fc' J' cf' \][\Yfz' Vi h' hYVXb]WU' UZNYf! hfYUha Ybh' \Ug' UVX]Yj YX' h'Y' gUa Y' ghUbXUfXz' h\]g' g\ci' X' VY' XcW'a YbhYX']b' h'Y' hYbXYf"</p> <p>5'' @BJ' i gYX']b' Wffm]b['ci h' h'Y' gYfj]W' a i gh'a YYhUh'YUgh'9i fc')"</p> <p>&\$%- .) \$i 'cZ@BJ' a i gh'a YYh'9i fc' *"</p> <p>&\$&\$. * \$i 'cZ@BJ' a i gh'a YYh'9i fc' *"</p> <p>&\$&% + \$i 'cZ@BJ' a i gh'a YYh'9i fc' *"</p> <p>&\$&&. , \$i 'cZ@BJ' a i gh'a YYh'9i fc' *</p> <p>5'' @WYh[cfm j Y\]WYg' i gYX']b' Wffm]b['ci h' h'Y' gYfj]W' a i gh'a YYhUh'YUgh'9i fc' "</p> <p>&\$%- .) \$i 'cZ @WYh[cfm j Y\]WYg' a i gh'a YYh'9i fc' ("</p> <p>&\$&\$. * \$i 'cZ @WYh[cfm j Y\]WYg' a i gh'a YYh'9i fc' ("</p> <p>&\$&% + \$i 'cZ @WYh[cfm j Y\]WYg' a i gh'a YYh'9i fc' ("</p> <p>&\$&% , \$i 'cZ @WYh[cfm j Y\]WYg' a i gh'a YYh'9i fc' ("</p> <p>H\Y' h]Yf' Udd']WV'Y' k]'' VeffYgdcX' hc' h'Y' nYUf' h'U' h'Y' W' Zc' h'YbXYf']g' U' bVX'YX"</p> <p>J Yf]Z]W]cb. h'Y' h'YbXYfYf' a i gh' dfcj]X'Y' h'Y' h'YVXb]WU' g\YYhg' cZ h'Y' j Y\]WYg' k \YfY' Ya]gg]cb' ghUbXUfXg' UfY' XYZ]bYX' : cf' h'c'gY' j Y\]WYg' \Uj]b[' UVX]Yj YX' UVcj Y! a Ybh]cbYX' ghUbXUfX' Zc' ck]b[' U' h'YVXb]WU' i d[fUXY' h'Y' a YUgi fYg' a i gh' VY' XcW'a YbhYX' UbX']bV' XYX']b' h'Y' h'YbXYfz' UbX' h\]g' a i gh' VY' j Yf]Z]YX' Vmi Ub']bXYdYbXYbh'h\]fX' dUfmi'</p>	<p>&\$&% , (i 'cZ<8J'a i gh'a YYh'9i fc'J ='</p> <p>&\$&&. - &i 'cZ<8J'a i gh'a YYh'9i fc'J ='</p> <p>K \YfY' j Y\]WYg' UfY' bch' Wfh]ZYX' Ug' a YYh]b['9i fc' J' cf' \][\Yfz' Vi h' hYVXb]WU' UZNYf! hfYUha Ybh' \Ug' UVX]Yj YX' h'Y' gUa Y' ghUbXUfXz' h\]g' g\ci' X' VY' XcW'a YbhYX']b' h'Y' hYbXYf"</p> <p>5'' @BJ' i gYX']b' Wffm]b['ci h' h'Y' gYfj]W' a i gh'a YYhUh'YUgh'9i fc')"</p> <p>&\$% . * \$i 'cZ@BJ' a i gh'a YYh'9i fc' *"</p> <p>&\$%- . + \$i 'cZ@BJ' a i gh'a YYh'9i fc' *"</p> <p>&\$&\$. , \$i 'cZ@BJ' a i gh'a YYh'9i fc' *"</p> <p>&\$&% - \$i 'cZ@BJ' a i gh'a YYh'9i fc' *"</p> <p>&\$&&. %\$ \$i 'cZ@BJ' a i gh'a YYh'9i fc' *"</p> <p>&\$%- . %) i 'cZ @BJ' a i gh'a YYh' h'Y' 9i fc' *X! H9A D'cf'9i fc' *X' ghUbXUfX"</p> <p>&\$&\$. & \$i 'cZ @BJ' a i gh'a YYh' h'Y' 9i fc' *X! H9A D'cf'9i fc' *X' ghUbXUfX"</p> <p>&\$&% &) i 'cZ @BJ' a i gh'a YYh' h'Y' 9i fc' *X! H9A D'cf'9i fc' *X' ghUbXUfX"</p> <p>&\$&&. ') i 'cZ @BJ' a i gh'a YYh' h'Y' 9i fc' *X! H9A D'cf'9i fc' *X' ghUbXUfX"</p> <p>5'' @WYh[cfm j Y\]WYg' i gYX']b' Wffm]b['ci h' h'Y' gYfj]W' a i gh'a YYhUh'YUgh'9i fc' "</p> <p>&\$%- . + \$i 'cZ @WYh[cfm j Y\]WYg' a i gh'a YYh'9i fc' ("</p> <p>&\$&\$. , \$i 'cZ @WYh[cfm j Y\]WYg' a i gh'a YYh'9i fc' ("</p> <p>&\$&% - \$i 'cZ @WYh[cfm j Y\]WYg' a i gh'a YYh'9i fc' ("</p> <p>&\$&&. %\$ \$i 'cZ @WYh[cfm j Y\]WYg' a i gh'a YYh'9i fc' ("</p> <p>H\Y' h]Yf' Udd']WV'Y' k]'' VeffYgdcX' hc' h'Y' nYUf' h'U' h'Y' W' Zc' h'YbXYf']g' U' bVX'YX"</p> <p>HG* "&" In case of urban areas with air quality issues:</p> <p>@BJ' g' UbX' @WYh[cfm j Y\]WYg' a i gh' \Uj Y' nYfc' hU] d]dY' Ya]gg]cbg'</p> <p>=Z' h'YfY']g' bc' WUf[]b[']bZ' Ugh' fi Vh' fY' Uj U] UV' Yz' cf' h'Y' YI dYVWX' i gY' d'fcZ] Y' fYei]fYg' Uf[Y' fUb[Yg' h'Y' j Y\]WYg' a Um Uh' h'Y' YUgh' VY' nYfc' hU] d]dY' Ya]gg]cbg' WUdUV' Yz'</p>
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	<p>a YUb]b['U' @7J' h\Uh' Wb' fi b' h\Y' a]b]a i a fUb[Y' cZ (\$' _a' k]h\ci h' Ya]h]b[' Ubmi hU]d]dY' Ya]gg]cbg"</p> <p>J Yf]Z]W]h]cb. H\Y' hYbXYfYf' a i gh' dfcj]XY' h\Y' hYV\ b]W' g\YYhg' cZ h\Y' j Y\]WYg' k \YfY' Ya]gg]cb' ghUbXUfXg' UfY' XYZ]bYXZ' UbX' k \YfY' Udd']WV' Y' h\Y' dUfYbYfg\]d' U[fYYa Ybh' k]h' h\Y' i fVUb' V\bgc']XUh]cb' W'bfY"</p> <p>: cf' h\cgY' j Y\]WYg' \Uj]b[' UVW]Yj YX' UVcj Y! a Ybh]cbYX' ghUbXUfX' Zc'ck]b[' U' hYV\ b]W' i d[fUXY' h\Y' a YUgi fYg' a i gh' VY' XcW' a YbhYX' UbX']bW' XYX']b' h\Y' hYbXYfZ' UbX' h\]g' a i gh' VY' j Yf]Z]YX' VmiUb']bXYdYbXYbh\]fX' dUfmi"</p>
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57&" 5]f' dc`i HUbh' Ya]gg]cbg' f (Same for core and comprehensive, not applicable if zero tailpipe emissions required for all vehicles in the technical specification TS6.2)

Dc]bhg' k]`VY' Uk UfXYX' hc' h\cgY' hYbXYfg' cZYf]b[' U'`

fUŁ" \[\Yf' dYfW' bHU[Y' h\Ub' h\Y' cbY' gYh' Vmi h\Y' HG*` fgYY' UVcj YŁZ' CF`

fMŁ" @8J' g' UbX' @W]hY[cfm] j Y\]WYg' h\Uh' \Uj' Y' Ub' Ya]gg]cb' dYfZ' cfa' UbW' VYhYf' h\Ub'
9i' fc' *#('CF`

fWŁ" BUh' fU' [Ug' < 8J' g' UbX' nYfc! Ya]gg]cb' W'dUV' Y' j Y\]WYgZ' a YUb]b[' k]h' U' a]b]a i a
fUb[Y' cZ (\$' _a' k]h\ci h' Ya]h]b[' Ubmi hU]d]dY' Ya]gg]cbg' Zcf' W]fg' UbX' @7J' gZ' UbX'
d'i []b' \mVf]X' Y' YVWf]Wj Y\]WYg' fD< 9J' ŁZ' VUhYfmi Y' YVWf]Wj Y\]WYg' f69J' ŁZ' UbX' Z' Y'
W' Y' YVWf]Wj Y\]WYg' f79J' ŁZ' Vi' gYg'

Zcf' h\Y' ZYYh' hc' VY' i gYX' i bXYf' h\Y' W'bfUWZ']b' d'fcdcfh]cb' hc' h\Y' YI' W'gg' c] Yf' h\Y' HG*` fgYY'
UVcj YŁ (to be detailed to which extent points will be attributed to higher percentages,
better performance and zero tailpipe vehicles. Zero tailpipe emissions capable vehicles
must be given more points than natural gas vehicles).

J Yf]Z]W]h]cb.
GYY' UVcj Y' HG&

* "&"(K UHYf`Vtbgj a dh]cb`fZcf`gk YYdYfg`ZYYhg`h Uhi gY`
k UHYf`Zcf`Xi ghgi ddfYgg]cbt`

F Uh]cbU`Y`

GUa Y`Ug`Zcf`h\Y`j Y\]WY`W]hYf]cb`dfcdcgU`"

7f]hYf]U`dfcdcgU`"

7cfY`	7ca dfY\Ybg]j Y`
5k UfX`W]hYf]U`	
<p>57 ("K UHYf`fYVfW`Uh]cb`</p> <p><i>If the contracting authority is requiring sweepers that use water for dust suppression</i></p> <p>Dc]bhg`k]` VY` Uk UfXYX` hc` h\cgY` hYbXYfg` cZyf]b[`U` gYfj]W` ZYYh` dfcdcfh]cbU`mi hc` h\Y` g\UfY`cZ] Y\]WYg`Yei]ddYX`k]h`U`k UHYf`fYVfW`Uh]cb`gmghYa` "</p> <p>J Yf]Z]W]h]cb.</p> <p>H\Y` hYbXYfYf` a i gh`dfYgYbh`h\Y``]gh`cZ`h\Y`j Y\]WYg`cZ`h\Y`gYfj]W` ZYYh`UbX`h\Y]f`hYVb]W]` g\YYhg`"</p>	

* "&)" Bc]gY`Ya]gg]cbg`

F Uh]cbU`Y`

GUa Y`Ug`Zcf`h\Y`j Y\]WY`W]hYf]cb`dfcdcgU`"

7f]hYf]U`dfcdcgU`"

7cfY`	7ca dfY\Ybg]j Y`
5k UfX`W]hYf]U`	
	<p>57) "Bc]gY`Ya]gg]cbg`</p> <p>Dc]bhg`k]` VY` Uk UfXYX` hc` h\cgY` hYbXYfg` cZyf]b[`U` gYfj]W` ZYYh`hc]U`miVta` dcgYX`Vm j` Y\]WYg`Vta`d`]Ubh`k]h`h\Y` 57) `cb`j Y\]WY` bc]gY`Ya]gg]cbg`gYh]b`h\Y`gYV]cb`*"%`)" "</p> <p>J Yf]Z]W]h]cb.</p> <p>H\Y` hYbXYfYf` a i gh`dfYgYbh`h\Y``]gh`cZ`h\Y`j Y\]WYg`cZ`h\Y`gYfj]W` ZYYh`UbX`h\Y]f` Wfh]Z]W]h]g`cZ`VtbZcfa]m`"</p>

* "&"* A U]bhYbUbW'cZ'h Y'ZYYh'

F Uh]cbU'Y'

GYW]cbg' * "%%"% UbX' * "%") 'XYgW]VY' h'Y' fYei]fYa Ybhg'cb'fc`]b['fYg]ghUbW' UbX'bc]gY' dfcdcgYX' Zcf' hmfYg' i gYX']b' bYk' di fV\UgYX' j Y\]WYg" HmfYg' UfY' fYd'UWX' U'cb[' h'Y' `]ZYh]a Y' cZ' h'Y' j Y\]WYz' UbX' h'Y'fYZcfY' h'Y' gUa Y' fYei]fYa Ybhg' g\ci `X' Udd`mi]b' a U]bhYbUbW' UW]j]h]Yg" : cf' h']g' di fdcgYz' VtbfUW' dYfZcfa UbW' WUi gYg' UfY' dfcdcgYX' fYei]f]b[' h'Y' VtbfUW'cf' hc' Vta d`mi k]h' h'Y' hmfYg' W]hYf]U' cj Yf' h'Y' gYfj]W' VtbfUW' =b' h'Y' WUgY' cZ' fc`]b[' fYg]ghUbW' cZ' hmfYg'z']h']g' dfcdcgYX' hc' VY' dUfh' cZ' Vch' VtY' UbX' Vta dfY\Ybg]j Y' `Yj Y`g' hc' VY' z' `mi \Ufa cb]gYX' k]h' h'Y' dfcj]g]cbg' cZ' h'Y' 9bYf[m'9ZZ]WYbWmi8]fYW]j Y'cb' h'Y' di fV\UgY' cZ' hmfYg' Vmi[cj Yfba Ybhg"

H'Y' i gY' cZ' `ck' j]gVt]g]mi' i Vf]W]bhg' f@ @&]g' fY' Yj Ubh' hc']a dfcj Y' h'Y' Yb[]bY' dYfZcfa UbW'z' UbX']h']g' U' Vtgh' YZZYW]j Y' cdh]cb' fbYY' DfY']a]bUfm' fYdcfH' G]bW' i Vf]W]bhg' UfY' XY[fUXYX' UbX' fYd'UWX' fY[i `Uf' mi U'cb[' h'Y' `]ZYh]a Y' cZ' h'Y' j Y\]WYz' @ @g\ci `X' VY' fYei]fYX' Ug' dUfh' cZ' h'Y' a U]bhYbUbW' W]hYf]U' cZ' h'Y' gYfj]W' W]hY[cf]Yg"''

7f]hYf]U'dfcdcgU'

7cfY'W]hYf]U'	7ca dfY\Ybg]j Y'W]hYf]U'
7cbhfUW'dYfZcfa UbW'WUi gY'	
	<p>7D7%"@ck j]gVtg]hm'i Vf]Wbhc]g'</p> <p>I b'Ygg' h\Y' a Ubi ZJW'i fYf' cZ' h\Y' j Y\]WY' fYVta a YbXg' ch\Yf' hmdY' cZ' i Vf]Wbhc] h\Y' VtbhfUW'cf'a i gh'fYd'UW' h\Y' i Vf]Wbhc] cZ' h\Y' j Y\]WYg' dfcj]X]b[' h\Y' gYfj]W' k]h' `ck j]gVtg]hm'Yb[]bY' i Vf]Wbhc]g' f@ @' "@ @UfY' h\cgY' VtffYgdcX]b[' hc' G59' [fUXY' bi a VYf' \$K ' \$'cf') K ' \$'cf'Yei]j U'Ybh''</p> <p>H\Y' VtbhfUW'cf'k]''_YYd' fYVt'fXg'k \]W' a i gh' VY' a UXY' Uj U]UV'Y' hc' h\Y' VtbhfUW]b[' Ui h\cf]hm' H\Y' VtbhfUW]b[' Ui h\cf]hma UmigYh' fi 'Yg'Zcf'dYbU'h]Yg'Zcf' bcb! Vta d']UbW''</p>
<p>7D7&"J Y\]WY' hmfYg' E' fc'']b[' fYg]ghUbW''</p> <p>(Same for core and comprehensive)</p> <p>H\Y' VtbhfUW'cf'a i gh'fYd'UW' h\Y' k cfb' hmfYg' cZ] j Y\]WYg' dfcj]X]b[' h\Y' gYfj]W' k]h' ''</p> <p>U' bYk' hmfYg' h\U' Vta d'm k]h' h\Y' \] [\Ygh' Z' Y' YbYf[m' YZ]WY' bW'm' WUgg' Zcf' fc'']b[' fYg]ghUbW' Yl dfYggYX']b' _[#cbbYz' Ug' XYZ]bYX' VmFY[i 'Uh]cb' f97' Bc' %&&#&\$-\$- ' cZ' h\Y' 9i fcdYUb' DUf]Ua Ybh'UbX' cZ' h\Y' 7ci bW' cZ&) ' Bcj Ya VYf' &\$-\$- ' cb' h\Y' UVY'']b[' cZ' hmfYg' k]h' fYgdYV' hc' Z' Y' YZ]WY' bW'm' UbX' ch\Yf' YggYbh]U' dUfUa Yh'f'g'' H\]g' VtbhfUW' dYfZcfa UbW' WUi gY' a i gh' bch' dfYj Ybh' h\Y' i gY' cZ' hmfYg' k]h' h\Y' \] [\Ygh' k Yh[f]d' WUgg' k \YfY' 'i gh]Z]YX' VmiguZYhm'</p> <p>CF'</p> <p>V' fYhfYUXYX' hmfYg'</p> <p>H\Y' VtbhfUW'cf'k]''_YYd' fYVt'fXg'k \]W' a i gh' VY' a UXY' Uj U]UV'Y' hc' h\Y' VtbhfUW]b[' Ui h\cf]hm' H\Y' VtbhfUW]b[' Ui h\cf]hma UmigYh' fi 'Yg'Zcf'dYbU'h]Yg'Zcf' bcb! Vta d']UbW''</p>	
	<p>7D7' "HmfY'bc]gY'</p> <p><i>Note: This CPC does not apply to retreaded tyres.</i></p> <p>H\Y' VtbhfUW'cf'a i gh'fYd'UW' h\Y' k cfb' hmfYg' cZ] j Y\]WYg' dfcj]X]b[' h\Y' gYfj]W' k]h' bYk' hmfYg' k]h' Yl hYfbU' fc'']b[' bc]gY' Ya]gg]cb' 'Yj' Yg' X6' VY'ck' h\Y' a Ul]a i a 'YghUV']g\YX']b' FY[i 'Uh]cb' f97' Bc' **%#&\$-\$- ' 5bbYl' = DUfh' 7'' H\]g']g' Yei]j U'Ybh' hc' h\Y' hcd' W]hY[cfm' fcZ' h\Y' h'fY' Uj U]UV'Y' cZ' h\Y' 9i' hmfY' UVY'' Yl hYfbU' fc'']b[' bc]gY' WUgg''</p> <p>H\Y' Yl hYfbU' fc'']b[' bc]gY' Ya]gg]cbg' k]'' VY' hYghYX' UWt'fX]b[' hc' h\Y' 5bbYl' = cZ' FY[i 'Uh]cb' f97' Bc' %&&#&\$-\$- ''</p> <p>H\Y' VtbhfUW'cf'k]''_YYd' fYVt'fXg'k \]W' a i gh' VY' a UXY' Uj U]UV'Y' hc' h\Y' VtbhfUW]b[' Ui h\cf]hm' H\Y' VtbhfUW]b[' Ui h\cf]hma UmigYh' fi 'Yg'Zcf'dYbU'h]Yg'Zcf' bcb! Vta d']UbW''</p>

Note on the purchase of maintenance services

The contracting authority may include these criteria within the call for tenders of vehicles maintenance services, however these criteria just cover a small part of the

maintenance activities and cannot be considered as EU GPP criteria for vehicles maintenance services

Note on requirements for Central Government procurement on the purchase of tyres

Article 6 and Annex III of the Energy Efficiency Directive (2012/27/EU), which had to be transposed into national law by June 2014, set out specific obligations for public authorities to procure certain energy efficient equipment. This includes the obligation to purchase only those tyres that:

fWta d'm k]h\ h\Y'W]hYf]cb'cZ\Uj]b['h\Y'\][\Ygh'Z'Y'YbYf[m'YZZ]WYbWn'WUggz' Ug'XYZ]bYX' VmFY[i'Uh]cb'f97L' Bc' %&&&#&\$\$- 'cZ'h\Y'9i' fcdYUb' DUF']Ua' Ybh'UbX' cZ'h\Y'7ci' bW' cZ' &)' Bcj' Ya' VYf' &\$\$- 'cb' h\Y' 'UVY''b['cZ' hmfYg' k]h\ fYgdYVh' hc' Z'Y' YZZ]WYbWn' UbX' ch\Yf' YggYbh]U' dUfUa' YhYfg''H\]g' fYei']fYa' Ybh' a' i' gh' bch' dfYj' Ybh' di' V']WVcX]Yg' Z'ca' di' fW' Ug]b[' hmfYg' k]h\ h\Y'\][\Ygh' k' Yh' [f]d' WUgg' cf' YI' hYfbU' fc''b[' bc]gY' WUgg' k' \YfY' 'i' gh]Z]YX' Vm' gUZ]micf' di' V']W\YU'h\ fYUgcbgD

This obligation is limited to central government and for purchases above the thresholds set out in the procurement directives. Moreover, the requirements have to be consistent with cost-effectiveness, economic feasibility, wider sustainability, technical suitability and sufficient competition. These factors can differ between public authorities and markets. For more guidance on the interpretation of this aspect of Article 6 and Annex III of the EED regarding procurement of energy-efficient products, services and buildings by central government authorities, please see the Commission guidance document COM/2013/0762 final, Communication from the Commission to the European Parliament and the Council, Implementing the Energy Efficiency Directive – Commission Guidance.

Regulation (EC) No 1222/2009 is currently under revision, and as part of this process, the European Commission has put forward proposal COM(2018) 296. This CPC will need to be updated according to the new legislation, once it is in force.

+ 8fUZhicZVta a cb`W]hYf]U`Zcf`gYfj]W`VWhY[cf]Yg`

+ "%7ca dYhYbW`cZ`hYbXYfYf`UbX`ghUZZ`hfU]b]b[`

F U]cbU`Y`

H\Y`gY`YV]cb`W]hYf]U`dfcdcgU`fYei]fYg`U`a]b]aia`Yl dYf]YbW`cb`]XYbh]Z]b[ž`Yj U`i Uh]b[`UbX`ja d`Ya Ybh]b[`hYVWbc`c[]Yg`UbX`a YUgi fYg`hc` fYXi W`k UhYf`UbX`YbYf[m`Vcbgi a dh]cbž` ; < ; `Ya]gg]cbg`UbX`U]f`dc`i hUbhg` Ya]gg]cbg`" H\]g`gY`YV]cb`W]hYf]cb`]g`U]a YX`Uh`Ybgi f]b[`h\Y`Vta dYhYbWg`cZ` h\Y`hYbXYfYf`hc`W]ffm`ci h`h\Y`gYfj]W`UWVfX]b[`hc`Ybj]fcb`a YbhU` dYfZcfa UbW`

H\]g`]g`Vta d`Ya YbhYX`k]h`U`ghUZZ`hfU]b]b[`VcbhfUW` dYfZcfa UbW`WUi gYž` k \]W`fYei]fYg`ghUZZ`hc`VY`hfU]bYX`]b`cdYfUh]cbU`dfcW`Xi fYg`gYh`ci h`Vm`h\Y`Vta dUbm`hc`]bWYUgY`h\Y]f`Ybj]fcb`a YbhU`dYfZcfa UbW`" H\]g`k`ci`X`Ybgi fY`h\Uh`h\YgY`dfcW`Xi fYg`UfY`dfcdYf`m]a d`Ya YbhYX`Vm`h\Y`ghUZZ`W]ffm]b[`ci h`h\Y`gYfj]W`

7f]hYf]cb`DfcdcgU`

7cfY`W]hYf]U`	7ca`dfY`Ybg]j`Y`W]hYf]U`
GY`YV]cb`W]hYf]U`	
<p>G7%"7ca dYhYbWg`cZ`h\Y`hYbXYfYf` <i>fSame for core and comprehensive)</i></p> <p>H\Y`hYbXYfYf`a`i`gh`Uj`Y`fY`Yj`Ubh`Vta`dYhYbWg`UbX`Yl`dYf]YbW`]b`dfcj`]X]b[` Ybj`]fcb`a`YbhU`m`Vcbg]ci`g`a`U]bhYbUbW`gYfj`]Wg`h`Uh`Uh`U`a`]b]a`i`a`ž`]bW`XYX`h\Y` Zc`ck`]b[`.</p> <ul style="list-style-type: none"> • i`gY`cZ`dfcXi`Wg`h\Uh`Uj`Y`VYYb`Uk`UfXYX`h\Y`9l`9Vt`UVY`cf`ch`Yf`fY`Yj`Ubh`9B`=GC`%(\$&(`hmdY`=YVt`UVY`g`h\Uh`UfY`bUh]cbU`mcf`fY[]cbU`mcZ]V]U`mfYVt[b]gYX`]b`h\Y`A`Ya`VYf`GHU]Yg`Zcf`h\Y`WYUb]b[`hUg`g`]b`U`VcbhfUWt` •]bhYfbU`cf`Yl`hYfbU`ghUZZ`hfU]b]b[`h\Uh`Vt`j`Yfg`Ybj`]fcb`a`YbhU`UgdYWg`gi`W`Ug`Vt`ffYVh`dfcXi`Vh`X]i`h]cb`UbX`XcgU[Y`i`gYž`X]gW]fX]b[`cZ`k`UghYk`UhYf`UbX`k`UghY`gcfh]b[ž` •]XYbh]Z]b[ž`Yj`U`i`Uh]b[`UbX`ja`d`Ya`Ybh]b[`h\Y`VYgh`Uj`U]`UV`Y`hYVWbc`c[]Yg`UbX`a`YUgi`fYg`f]Z`Udd`]W]V`Y`hc`h\Y`gdYV]Z]WgYfj`]W`dfcj`]XYXt`U]a`YX`Uh` <ul style="list-style-type: none"> ○ A]b]a]g]b[`k`UhYf`UbX`YbYf[m`Vcbgi a dh]cbž` ○ A]b]a]g]b[` ; < ; `Ya]gg]cbg`UbX`U]f`dc`i hUbhg`Ya]gg]cbg` ○ A]b]a]g]b[`k`UghY`[YbYfUh]cb` ○ Cd]h]a]g]b[`k`UghY`a`UbU[Ya`Ybh` ○ A]b]a]g]b[`i`gY`cZ`dYgh]W]XYgž`]bW`X]b[`YfV]W]XYg` ○ A]b]a]g]b[`i`gY`cZ`ZYfh`]gYfg` ○ A]b]a]g]b[`i`gY`cZ`WYUb]b[`dfcXi`Wg` ○ A]b]a]g]b[`i`gY`cZ`XY!]V]b[`dfcXi`Wg` ○ DfchYV]b[`UbX`dfca`ch]b[`V]cX]j`Yfg]hm` • a`cb]hc]b[`UbX`fYdcfh]b[`dfcW`Xi`fYg`cZ`h\Y`Ybj`]fcb`a`YbhU`]ggi`Yg`]ghYX`UVcj`Y` 	

f`GHUZZ dcegYgg]b[`h\Y`fY`Yj Ubh`fU]b]b[`h\ fci [\ `U`Zcfa U`YXi W]h]cbU`gmghYa `a Um`VY`
YI Ya dhYX`Zca `h\]g`fYei]fYa Ybh`

FYVta a YbXYX`j U`i Yg`

: cf`dYfa UbYbh`ghUZZ`UbX`hYa dcfUfmighUZZ`k]h`V`bhfUW]g`YI WYX]b[`m`YUf. `m`*\`cZ]b]h]U`
fU]b]b[`z, \ `cZ`fU]b]b[`Ug`dUfhicZ`Ubbi U`i dXUHyg`

: cf`hYa dcfUfmighUZZ`k]h`V`bhfUW]g`h`Uh`Xc`bch`YI WYX`m`YUf. ; \ `cZ]b]h]U`fU]b]b[``

H\Y`Xi fU]h]cb`cZ`h\Y`fU]b]b[`W]b`VY`UX`i ghYX`hc`h\Y`bYXg`UbX`V`bX]h]cbg`cZ`h\Y`hYbXYfg`

+ "& `9bj]fcb a YbhU`a UbU[Ya Ybh'a YUgi fYg`

F U]h]cbU`Y`

H\Y` W]h]f]U` U]a YX` Uh` dfca ch]b[`VYgh` cdYfU]h]cbU` dfUW]W]g` bYXX` hc` VY`
gi ddcfYX` Vmi a UbU[Ya Ybh`a YUgi fYgž` a YUb]b[`a cb]hcf]b[`UbX` d`Ubb]b[``
H\]g` k ci `X` Ybgi fY` U` dfcdYf`]a d`Ya YbhU]h]cb` UbX` [i UfUbhYY` V`bh]bi ci g`
]a dfcj Ya Ybh`5b`Ybj]fcb a YbhU`a UbU[Ya Ybh`gmghYa `f9A GŁ`]g`U`gmghYa Uh]W
k Um` hc` a]b]a]gY` h\Y` Ybj]fcb a YbhU`]ggi Yg` cZ` Ub` cf[Ub]gUh]cb`` =h`]g`
dUfh]W`Uf`m`Y`dZ` `` hc` Ybgi fY` h\Y` Ybj]fcb a YbhU` dYfZcfa UbW` cZ` gYfj]W]gž`
k`YfY` Ub`]a dcfU]bh`dUfh`cZ`h\Y` W]h]f]U` a i gh`fY`m`cb` VYgh` dfUW]W]gž` ghUZZ`
fU]b]b[`UbX` ch\Yf` cdYfU]h]cbU` fYei]fYa Ybhg`` Gca Y` bU]h]cbU` ; DD` W]h]f]U`
fYei]fY` h\Y` Vta dUbm` hc` \Uj`Y` U` W]fh]Z]YX` Ybj]fcb a YbhU` a UbU[Ya Ybh`
gmghYa ``

5`h\ci [\ `9A G`]g` U` j Yfm` i gYZ` `` hc` `` hc` XYj`Y`cd` gmghYa Uh]W]a dfcj Ya Ybh`
dfcW]ggYgž` h\Y` `Yk Um` cZYfYX` Vmi h\Y` =GC` ghUbXUfXg` a Um` \]bXYf` h\Y]f`
Udd`]W]h]cb`]b` fYU` dfUW]W]g`` H\Y]f` fYei]fYa Ybhg` UfY` gc` [YbYfU` h`Uh` h\Y]f`
]bhYfdfYhU]h]cb` a Um` VY` X]ZZ]W`h`Zc`f`h\Y` bcb! YI dYfh` i gYfg`` =b` UXX]h]cbž` 9A G`
a] [\ h` VY` dUfh]W`Uf`m`X]ZZ]W`h` hc` VY` UW]Yj YX` Vmi GA 9g` k` \]W]` a Um` YUX` hc`
h\Y]f` YI W] g]cb` cZ` h\Y` hYbXYf` dfcW]gg`` =h`]g` h\YfYZcY` dfcdcgYX` U` hYW]b]W]`
gdYV]Z]W]h]cb`]bgd]fYX` cb` h\Y` d`Ub! Xc! W]YW! UW] fD8 75Ł` df]bW]d`Yg` k` \]W]`
V`bgh]h` hY` h\Y` VUg]g`cZ`h\Y` a UbU[Ya Ybh`gmghYa gž` UbX` ghfi W]i fYX` Ug`Zc`ck`g`

- A cb]hcf]b[`h\Y` Ybj]fcb a YbhU`]ggi Yg` Vmi a YUbg` cZ` Ybj]fcb a YbhU`
]bX]W]hcf]g.]b` h\]g` W]gYž` h\Y` Ybj]fcb a YbhU`]ggi Yg` UfY` k` UhYf` UbX`
YbYf[m` V`bgi a dh]cbž` ; < ; `UbX` U]f` dc``i` hU]bh` Ya]gg]cbgž` V`bgi a UV`Y`
[ccXg`V`bgi a dh]cb`UbX`k` UghY` [YbYfU]h]cb``
- =a d`Ya YbhU]h]cb` cZ` h\Y` cdYfU]h]cbU` dfcW]Xi fYg` hc` a]b]a]gY` h\Y`
Ybj]fcb a YbhU` UgdYW]g. h\]g` k ci `X` a YUb` U` d`Ub` hc` a]b]a]gYX` h\Y`
Ybj]fcb a YbhU`]ggi Yg`]XYbh]Z]YX` h`Uh` V`j` Yfg` h\Y` gYfj]W] dfcj]YX` c] Yf`
V`bhfUW]dYf]cX``
- 9j U`i Uh]cb`cZ`h\Y`]a d`Ya YbhU]h]cb`cZ`h\Y` dfcW]Xi fYg` UbX` V`ffYW]cb`cZ`
h\Y` XYj]Uh]cbg`Zci` bX. `h\YfY` a i gh`VY` U` gmghYa Uh]W]k` Um` hc` Ybgi fY` h\Y`
dfcdYf`]a d`Ya YbhU]h]cb` cZ` h\Y` Ya]gg]cbg` fYXi W]cb` d`Ub` UbX` h\Y`
a]b]a]gUh]cb`cZ`]bX]W]hcf]g`` : cf` h\]g` di` fdcgYž`]h`]g` bYW]ggUfm` hc` W]ffmi`
ci` h` U` fY[i` Uf` Yj` U`i Uh]cb` cZ` Vch`]bX]W]hcf]g` UbX` d`Ubž` UbX` hc` gYh`

VēffYVWj Y' UbX' dfYj Ybhj Y' UW]cbg' k \YfY' bYYXYX" H\]g']g' dfcdcgYX' hc' VY' XcbY' Vm hfUW_]b[' h\Y' Yj c'i h]cb' cZ h\Y']bX]W]hcf'g' c] Yf' h\Y' VēbfUW] Xi fUh]cbz' UbX' WYVW_]b[' \ck' h\Y' Ya]gg]cbg' fYXi W]cb' d'Ub']g' XYd'cmYX' fYU' dfUW]V"

H\Y' hYVWb]W' gdYVZ]W]h]cb']g' Vēa d'Ya YbhYX' k]h' U' VēbfUW] dYfZcfa UbW' WUi gY' hc' Ybgi fY' h\Y']a d'Ya Ybh]h]cb' cZ h\Y' Ybj]fcb' a YbH] a UbU[Ya Ybh' a YUgi fYg" ði U'gc' k cf_g' Ug' U' hc' Zcf' h\Y' VēbfUW]b[' Ui h\cf]m hc' fYk UfX' h\cgY' VēbfUW]hcf'g' h\Uh' UW]Yj Y' a cfY' Ua V]h]ci g' hUf[Yhgž' Vm a YUbg' cZ Vcbi gYg" 6Yg]XYgž' h\Y' hYVWb]W' gdYVZ]W]h]cb']bX]W]hYg' h\Uh' h\Y' VēbfUW]b[' Ui h\cf]h]Yg' a UmUk UfX' dc]bhg' hc' Ybj]fcb' a YbH] a UbU[Ya Ybh' a YUgi fYg' h\Uh' Ybh] U'g][b]Z]W]bh]a dfcj Ya Ybh'Vēa dUfYX' hc' h\Y' Vēbj Ybh]cbU' dfUW]Vg"

7f]hYf]cb DfcdcgU'

7cfY' W]hYf]U'	7ca dfY\ Ybg]j Y' W]hYf]U'
HYWb]W' GdYVZ]W]h]cb'	
<p>HG%" 9bj]fcb' a YbH] a UbU[Ya Ybh' a YUgi fYg' <i>(Same for core and comprehensive)</i></p> <p>H\Y' hYbXYfYfg' a i gh\Uj Y' k f]hYb' d'fcW]Xi fYg' hc' .</p> <p>%" a cb]hcfz' fYVēfX' UbX']a d'Ya Ybh' a YUgi fYg' Zcf' h\Y' Zc'ck]b[.</p> <ul style="list-style-type: none"> • A]b]a]g]b[' YbYf[mVēbgi a dh]cb' • A]b]a]g]b[' ; < ; 'UbX' U]f' dc' i hUbh'Ya]gg]cbg' • A]b]a]g]b[' k UhYf' Vēbgi a dh]cb' • A]b]a]g]b[' d'fcXi W]g' Vēbgi a dh]cb' fM[" ' WYUb]b[' d'fcXi W]gž' a]bYFU' UbX' cf[Ub]W] ZYfh]]gYfgž' dYgh]VXYgž' XY!]V]b[' d'fcXi W]gž' • A]b]a]g]b[' k UghY' [YbYfUh]cb' • 9b\UbV]b[' V]cX]j Yfg]m <p>&" a U]bH]b' h\Y' j Y\]W]g' ZYYh' UbX' h\Y' a UW]bYfm ZYYh' UW]fX]b[' hc' h\Y' a Ubi Z]W] fYfg' fYVēa a YbXUh]cbg'</p> <p>' " Yj U'i UhY' h\Y' XYd'cma Ybh' cZ h\Y' d'Ub' UbX' cdYfUh]cbU' d'fcW]Xi fYgž' Vm hfUW_]b[' h\Y' Yj c'i h]cb' cZ]bX]W]hcf'g' UbX' h\Y']a d'Ya Ybh]h]cb' cZ h\Y' a YUgi fYg' UbX' d'fcW]Xi fYg']b' fYU' dfUW]V"</p> <p>("]a d'Ya Ybh' h\Y' bYVWggUfm UW]cbg' hc' VēffYVW' XYj]Uh]cbg' Z'ca' h\Y' d'Ubz' UbX']Z dcgg]V' Y' dfYj Ybh' h\Y']b' h\Y' Z' h' fY"</p> <p>J Yf]Z]W]h]cb.</p> <p>H\Y' hYbXYfYf' a i gh'dfcj]XY' U' VēdmcZ h\Y' gU]X' k f]hYb' d'fcW]Xi fYg"</p> <p>9bj]fcb' a YbH] a UbU[Ya Ybh' grghYa g' W]fh]Z]YX' U[U]bgh' 9i' 9Vē! a UbU[Ya Ybh' UbX' 5i X]h' G]W]Ya Y' f9A 5Gē cf' =GC' %(\$%\$%k]' VY' XYYa YX' hc' Vēa d'nž']Z h\YmVēj Yf' h\Y' Ybj]fcb' a YbH] cV'YVW]j Yg']ghYX']b' h\Y' hYVWb]W' gdYVZ]W]h]cb' UbX']hg' gVēdY']bW] XYg' h\Y' gYfj]W]g' h\Uh' Vēbgh]h' hY' h\Y' gi V'YVW' a UhYf' cZ h\Y' W' Zcf' hYbXYf" H\Y' hYbXYfYf' a i gh' d'fcj]XY' h\Y' Ybj]fcb' a YbH] dc]V]m]g'ck]b[' h\Y' Vēa a]h' a Ybh' hc' UW]Yj Y' h\YgY' cV'YVW]j Ygž' hc[]h\Yf' k]h' h\Y' W]fh]Z]W]h]]ggi YX' Vm h\Y' W]fh]Z]W]h]cb' VcXmk \YfY' h\Y' gVēdY']g' X]g]W]cgYX"</p>	

Note: the contracting authority may points at award stage to those tenders offering significant improvements in their environmental management measures.

Explanatory notes:

The indicators to monitor the environmental issues are recommended to be based on the functional unit 'm² of maintained area' (e.g. litres of water consumed per m², litres of consumable per m²). The minimum monitoring frequency recommended is once per season (four per year) during representative weeks. A representative week means a week where the level of activity is approximately the average of each season

In case of biodiversity, the selection of indicators that enable the monitoring of this environmental aspect may be difficult. The ideal indicator would be objective-based, for example, an objective may be increasing the population of passerines, and the indicator would be the evolution of number of these birds. This needs to be estimated by capturing samples, and may be too costly. In that case, it is recommended to set indicators for the actions carried out to accomplish the objective: number of occupied nest boxes, increment of tree density and patch connectivity, etc.

7cfY W]hYf]U

7ca dfY\ Ybg]j Y W]hYf]U

7cbfUW]dYfZcfa UbW WUi gY

7D7&"9bj]fcb a YbHU`a UbU[Ya Ybh'a YUgi fYg`

(Same for core and comprehensive)

H\Y`W]bhfUW]cf`a i ghXcW a YbhUbX`fYdcfh`cj Yf`h\Y`W]bhfUW]Xi fUh]cb.

!`h\Y`fYgi`hg`cZ`h\Y`a cb]hcf]b[`cZ]bX]W]hcf]g`

!`h\Y`a U]bhYbUbW`UW]j]h]Yg`

UbX`

!`h\Y`fYgi`hg`cZ`h\Y`Yj U`i Uh]cb`UbX`h\Y`W]ffYW]cb`UbX`dfYj Ybh]cb`UW]cbgž`k`YfY`Udd`]W]V`Yž`

UW]cfX]b[`hc`h\Y`k`f]H]Yb`dfcW]Xi`fYg`dfcj]XYX`Zcf`h\Y`j Yf]Z]W]h]cb`cZ`h\Y`HG%9bj]fcb a YbHU`a UbU[Ya Ybh'a YUgi fYg`

H\YgY`fYdcfhg`a i gh`VY`a UXY`Uj U]UV`Y`hc`h\Y`W]bhfUW]b[`Ui`h\cf]m`Zcf`j Yf]Z]W]h]cb`di`fdcgYg`"

H\Y`W]bhfUW]b[`Ui`h\cf]m`a UmigYh`fi`Yg`Zcf`dYbU`h]Yg`Zcf`bcb!`W]a`d`]UbW`UbX`Vcbi`gYg`Zcf`YI`W]YX]b[`h\Y`cV`YW]j Yg`gYh`Vm`h\Y`dfcW]Xi`fYg`hc`cdh]a]gY`h\Y`Ybj]fcb a YbHU`]ggi`Yg`"

6]V`]c[fUd\ m

BcfX]W9Wt`UVY`b[" f&\$%* Vt" Nordic Ecolabelling of Industrial cleaning and degreasing agents."

BcfX]W 9Wt`UVY`b[" f&\$% t" Nordic Ecolabelling of Cleaning Products Version 5.5."

']6G" f&\$% t" Bus systems in Europe: current fleets and future trends."

5795" f&\$%* t" Consolidated Registration Figures."

5795" f&\$%+t" ACEA Report Vehicles in use in Europe 2017."

5795" f&\$%+t" Average Vehicle Age" FYhf]Yj YX` Zca` \hgd. ##k k k "UWU"VY#gHh]gh]Wg#U[#WUy[cfm#Uj YfU[Y!j Y\]WY!U[Y`

5WUg`8Y`<cfh]W`hi fU`B`* , " f&\$%(t" Las Buenas Prácticas en la Horticultura Ornamental." JU`YbWU. J= >cfbUXUg` =\ff]WUg` XY` <cfh]W`hi fU` CfbUa YbhU`"

5i`hJa Ybh` XY` 6UfW`cbU` f&\$% t" Barcelona green infrastructure and biodiversity plan 2020."

5`VYfgz`H`D` f&\$%) t" 6Ygh`DfUW]Wg`Zc`K`]bhYf`A`U]bhYbUbW`F`cUXk`Um`8Y]Wf` 5dd`]WU]cbg`]b` h`Y` GHUy` cZ` BYVfUg`_U` FYhf]Yj YX` Zca` \hgdg. ##X][]hU`Vta` a`cbg`i` b`"YXi` #W`]#`]Yk` Vt`bhYbh`W`]3fYZfYf1 / \hgdgY X]f1 % Ufh]WY1 %\$, ' / Vt`bhYI` h1` Wj`]Yb[X]gg`

5a`ghYfXUa` Fci`bXhUV`Y` :ci`bXU]cb` UbX` A`W`]bgYmi` /` 7ca` dUbm` f&\$%(t" Electric vehicles in Europe: gearing up for a new phase?"

5i`ghf]Ub`A`cV`]ImiFYgYUfW` f&\$%(t" Cyclelogistics ahead - Final report."

6UfW`cbUz` ; " c" fb`X`"t" Ecology, Urban Planning and Mobility" FYhf]Yj YX` GYdhYa VYf` % ž` &\$% ž` Zca` \hgd. ##U`i` bhJa Ybh`VUfW`cbU`WU`h`YVt`c[]Ui`fVUbU`#Yb`#gYfj`]Wg`#h`Y!`W]mi` k`cf`_`#` fVUb!`a`UbU[Ya Ybh`#Vt`cfX]bU]b[!]a`dfcj`Ya`Ybh`a`YUgi`fYg!`]b!` di`V`]WUfYUg`dUf`_g!`UbX!`[UfXYbg!`a`UbU[Ya`Ybh`

66@`6Y`[]i`a` /`Yh`U`" f&\$%t" momo Car-Sharing: More options for energy efficient mobility through Car-Sharing."

6Y`[]Ub` 8Yj`Y`cda`Ybh` 5[YbWm` f&\$%\$t" European Market for Fair and Sustainable Flowers and Plants."

6Y`[]Ub`BUh]cbU` :cWU`Dc]bh`hc`h`Y` 7cbj`Ybh]cb`cb`6]c`c[]WU`8]j`Yfg]Imi`fYX`"t" f&\$% t" Biodiversity 2020 – Update of Belgium’s National Biodiversity Strategy." 6fi`ggY`g.`F`cmU`6Y`[]Ub`=bgh]hi`hY`cZ`BUhi`fU`GWYbWg`"

6A`K` ; fci`d`" f&\$%(t" 9bj`]fcba`YbhU`FYdcfh`6A`K`]' `69J`"

6A`K` ; fci`d`" f&\$%) t" 9bj`]fcba`YbhU`FYdcfh`6A`K` +(\$@]"

6i`WYf` A`i`b]WdU`" f&\$%+t" Products brochure" FYhf]Yj YX` Zca` \hgd. ##gk`YYdYf`Vi`WYfa`i`b]WdU`Vta` #g]hYg`#XYZUi`h`#Z]Yg`#gk`YYdYf`#UXX]h`

]cbU`S]bZcfa Uh]cbSXck b`cUXS]hYa g#Va S[YgUa hVfcgWł 7' i 67fYSYb S`ck S\$"dXZ

6i WYf` Ai b]V]dU` 5; "" f&\$\$&Ł" *Compact sweepers.* FYhf]Yj YX` &\$\$ ž Zfca \hd. ##gk YYdYf]h`Vi WYfa i b]V]dU`"VŁa #g]hYg#gk YYdYf]h#Z]Yg#UXX]h]cbU` S]bZcfa Uh]cbSXck b`cUXS]hYa g#\$' S]V]mW]hS) \$\$\$ SYi fc*S%% _k ShYV]b] gWYgSXUHybV`UhtSYb"dXZ

7Ua V]c` W]fg\Uf]b[` "" f&\$\$* Ł" *cambio carsharing* "" FYhf]Yj YX` Zfca \hd. ##k k k "W]a V]c"VY#VŁ g#W]fg\Uf]b[#Yb#&#VŁ gSZ S&#VŁ g3VŁ gS_bi i]X1 \$, V*' %ZV!YV%V!(' Y*!- \$Y+!) W]W]) Z' *`

7Ua V]c` W]fg\Uf]b["" f&\$\$* Ł" *Cambio carsharing*"` FYhf]Yj YX` Zfca \hd. ##k k k "W]a V]c! W]fg\Uf]b["XY#3`1 Yb`

7Uk YXc! 5f[~ Y`Ygž` Yh` U`" f&\$\$* Ł" GUj]b[` ZYg\k UHyf` Zfca ` gU`hg" *Science, 351ž` - %Ł - %*`*

7Ufj U\ ~cž`A "ž`Yh`U`" f&\$\$) Ł" 9j U`i Uh]cb`cZ`a YW]Ub]W]`gcZ] UVfUg]j Y`V`Ugh]b[` UbX` W]Ya]W]` W]YUb]b[` a Yh\cXg` cb` U`_mX!dU]bh[[fUZZ]h] a UXY` cb` W]W]fYci g`g]cbYg" *Journal of Cultural Heritage, 16f(Łž) +- !)* - \$"`

7Ui k Yf` Yh` U`" f&\$\$% Ł" =b]Y[fU]b[` dfYj Ybh]j Y` UbX` W]fU]j Y` bcb-W]Ya]W]` k YX` VŁb]fc` g]fU]Y[]Yg` Zc` VŁbW]Yh` V`cW]` dUj Ya Ybhg" *Weed Research, 54f]Łž` - +! %\$+`*

79` 8Y`Z]` f&\$\$, Ł" *Handbook on Estimation of External Costs in the Transport Sector, Report for the European Commission.* `8Y`Z]`

79` 8Y`Z]` f&\$\$&Ł" *Behavioural Climate Change Mitigation Options- Domain report Transport.* `8Y`Z]`

79` 8Y`Z]` f&\$\$&Ł" *Behavioural Climate Change Mitigation Options- Domain report Transport.* `8Y`Z]` `79`8Y`Z]`

79` 8Y`Z]` f&\$\$Ł" *STREAM Passenger transport 2014, Study on Transport Emissions from All Transportation modes.* ``

79`8Y`Z]` f&\$\$) Ł" *Pilot projects for innovative public transport buses.* ``

79`8Y`Z]` f&\$\$* Ł" *Road taxation and spending in the EU.* `8Y`Z]`

79` 8Y`Z]` f&\$\$* Ł" *STREAM Freight transport 2016, Study on Transport Emissions from All Transportation modes.* ``

79`8Y`Z]ž`HBC`UbX`97B" f&\$\$ Ł" *Natural gas in transport : an assessment of different routes.* ``

79`8Y`Z]ž`HBC`UbX`97B" f&\$\$ Ł" *Natural gas in transport : an assessment of different routes.* `8Y`Z]` `79`8Y`Z]`

79B" f&\$\$&Ł" FYhf]Yj YX` A UfW] ` ž` &\$\$* ž` Zfca \hd. ##g]UbXUfXg"W]b"Yi #Xmb#k k k #Z3d1 &\$(. %\$\$. \$.... : GDSDFC >97Hž: GDSCF; S=8.' &- ') ž*` \$% V]1 %) 8(++) %6) : 6) &* - : \$\$\$+ : 87985% 9(6%

7YbYI UbX 5h_bg" f&\$%* Ł" *Low Carbon Truck and Refuelling Infrastructure Demonstration Trial Evaluation.*

7\Uf]ž A " f&\$% Ł" *A Comparative Life Cycle Assessment of Biodiesel- and Battery-Powered Ride-on Mowers.* I b]j Yfg]m cZ 6f]h]g\ 7c'i a V]U" 7UbUXU"

7\]Z]ž / ; U" f&\$%(UŁ" *A guide to effective strategies for introducing and supporting Cyclelogistics in urban areas.*

7]m 7ci bW' cZ Hfc bhc" f&\$%) Ł" *Street Sweeper Evaluation Results and Operational Considerations.*

7]m cZ 6fi ggY`g" fb"X"Ł" *City of Brussels - staff mobility plans*" FYhf]Yj YX' Zca ` \hd. ##k k k "Vfi ggY`g"VY#UfhXYh"VZa #) , &%"

7\U]fchYž' NUFX]b]ž' <Uež' / ' A Ufh]b]" f&\$%) Ł" *Stocktaking and data mining - Phase 1 of Euro 5.*

7YUb' : `YYhg" f&\$%(Ł" *Clean Buses – Experiences with Fuel and Technology Options.*

7ca a]gg]cb' XYV]g]cb' f9I Ł' &\$%) #&\$- - " fb"X"Ł" *Further information and technical indications about soil improvement and mulch can be consulted in Commission decision (EU) 2015/2099 of 18 November 2015 establishing the ecological criteria for the award of the EU Eco-label for growing media, soil improv.*

7cbbY_h' f&\$%\$Ł" FYhf]Yj YX' A UfVX' ' ž' &\$%* ž' Zca ` \hd. ##YUb! [fYYb"b`#Yb! [V#cc`Vcl #%\$+# [fYYb! hYbXYf"\ha `"

7cbbY_h' f&\$%* Ł" FYhf]Yj YX' A UfVX' ' ž' &\$%* ž' Zca ` \hd. ##YUb! [fYYb"b`#Yb! ; 6#

7CF8=G' ! 9i fcdYUb' 7ca a]g]cb" f&\$% Ł" *Final Report Summary - EFFACEUR (InnovativE anti-graFFiti product for Application in the Cultural Heritage of EUROpe).* : D+! GA 9"

7cfg]ž Yh' U" f&\$%\$Ł" 5' ZFYg\ `cc_` Uh' fcUX' gU'h' Uei Uh]Whcl]V]m UbX' k UhYf! ei U]m]a dUWg' cb`cW]ž' fY[]cbUž' UbX' bUh]cbU' gW]Yg" *Environmental Science & Technology, 44ž+' +* Ę+' , &"*

7CK =/J <? " f&\$%\$Ł" *Methodology for Ecodesign of Energy-related Products.*

7i a a]bg' =bW f&\$%+Ł" *Non-Road Mobile Machinery EU Regulation.* FYhf]Yj YX' Zca ` \hdg. ##dck Yf"W a a]bg"WŁa #gmghYa #Z]Yg#]hYfUhi fY#VfcVXi fYg#Bcb! FcUXSA cV]YSA UW]bYfmSFY[i `Uh]cbS) (%\$+, , "dXZ

7i mbcž' Yh' U" f&\$%\$Ł" 9VŁbca]W UbU`mg]g' cZ Ybj]fcb a YbhU' VYbYZ]hg' cZ]bhY[fUHXY' dYgh' a UbU[Ya Ybh' 5' D\]]dd]bY' WUgY' ghi Xm' ž' &) f&- Łž' " *Agricultural Economicsž' &&+! &' ' "*

8YYdXUY' HfYYg' @h" f&\$%+Ł" FYhf]Yj YX' Zca ` \hd. ##k k k "XYdXUY! hfYYg"WŁ"i _#fYYg#U]f! dch] gmghYa "\ha `"

89: F5" f&\$%# " Biodiversity 2020: A strategy for England's wildlife and ecosystem services."

8; ACJ9" f&\$%(" Update of Handbook on external costs of Transport, report MOVE/D3/2011/5."

8]fYVW]j Y &\$\$, #-, #97" fb"X" " Directive 2008/98/EC of the European Parliament and of the Council of 19 November 2008 on waste and repealing certain Directives (OJ L 312, 22.11.2008, p. 3)."

8]fYVW]j Y &\$-\$- #%&, #97" fb"X" " European Parliament and the Council of the European Union, Directive 2009/128/EC of 21 October 2009 establishing a framework for Community action to achieve the sustainable use of pesticides, 24th November 2009."

8C9" f&\$%* " US Department of Energy - Solid-State Lighting R&D Plan June 2016."

8I " f&\$% " Sustainable mobile airconditioning for Buses." 6Yf`]b. 8Yi hgWY. I a k Y`h`]ZY`fBI "Y"J"

965" f&\$%(" Biogas report."

97" f&\$%* " Energy, transport and GHG emissions. Trends to 2050."

97`>F7" f&\$%* " Revision of European Ecolabel Criteria for Lubricants."

97`>F7" f&\$%* U" Preliminary report (Draft): Revision of the EU Green Public Procurement Criteria for Transport."

97C`GHUfg" f&\$%* " FYhf]Yj YX`A UfW` ` ž &\$%* ž Zfca ` \hd. ##k k k "YVtghUfg! i _"Vta #UVci h YVt! ghUfg#k \Uh]g!]h#"

9Vt`UVY`]b[ž B" fGYdhYa VYf` &\$%+ " 8Y!]Wfg"

9Xk UfXgž` F "ž` A i `][Ubž` 8"ž` / ` A UfY`]ž` @` f&\$%\$ " Indirect Land Use Change From Increased Biofuels Demand - Comparison of Models and Results for Marginal Biofuels Production from Different Feedstocks. @ I Ya Vci f[. Di V`]W]h]cbg`CZZ]W`cZH\Y`9i fcdYUb`I b]cb"

995" f&\$%* " Monitoring CO2 emissions from new passenger cars and vans in 2015."

995" f&\$%+ " Electric vehicles and the energy sector - impacts on Europe's future emissions" FYhf]Yj YX` Zfca ` \hdg. ##k k k "YYU"Yi fcdU"Yi #h\Ya Yg#fUbgdcfh#Y`YVf]Wj Y\]WYg#Y`YVf]Wj Y\]WYg! UbX! YbYf[mi"

9; A: " f&\$%+ " Activity Report."

9B` %&+ ' . &\$-\$- " fb"X" " Agricultural And Forestry Machinery - Pedestrian Controlled Motor Mowers - Safety. 9i fcdYUb` 7ca a]hYY` Zcf` GHUbXUfX]nUh]cb"

9B`%)) - +!%" f&\$%+ " Winter maintenance equipment - Spreading machines (gritting machines) - Part 1: General requirements and definitions for spreading machines."

9B %) - +!&" f&\$%+Ł" *Winter maintenance equipment - Spreading machines (gritting machines) - Part 2: Requirements for distribution and their test.*

9B%) (&-!%&\$+\$+"fb"X"Ł" *Sweepers - Part 1: Classification and Terminology.*

9bYf[mi GUj]b[' Hfi gh' f&\$% Ł" *Understand how daily rental vehicles can benefit your business.*

9DCA A " f&\$%&ž' 8YVW a VYfŁ" *Cycle Logistics- Moving goods by cycle : e-update*

9gd]bcgUž' Yh' U" f&\$%+Łž' *EU GPP Criteria for Public Spaces Maintenance - Preliminary Report,*

9I ' 7ca a]gg]cb' È' 8; ' 9BHF" f&\$%(Ł" *Draft Task 3 Report - Preparatory Study to establish the Ecodesign Working Plan 2015-2017 implementing Directive 2009/125/EC.*

9I b]hYX" f&\$%+Ł" *Common Test for Spreaders of Winter Maintenance Equipment (WME) Section members"*

9I b]hYX" f&\$%+Ł" *Successful EUnited PM Test"*

9I b]hYX' A i b]VdU' 9ei]da Ybh" f&\$%(Ł" *Innovative Solutions for the Waste Collection from the members of EUnited Municipal Equipment.*

9I F 9D; 5D" f&\$+\$+Ł" 7cbhfc' Dc]bhg' UbX' 7ca d']UbW' 7f]hYf]U' !' =bhY[fUHYX'

9i fcdYUb' 6]c[Ug' 5ggc' VUh]cb" f&\$%(Ł" *Biogas production in Europe.*

9i fcdYUb' 7ca a]g]cb" f&\$%+VŁ" *EU green public procurement criteria for paints, varnishes and road markings.*

9i fcdYUb' 7ca a]gg]cb' È' 8; ' 9BJ" f&\$\$, Ł" *Interim report – Battery capacity determination and labelling.*

9i fcdYUb' 7ca a]gg]cb" f&\$%Ł" *EU energy trends to 2030.*

9i fcdYUb' 7ca a]gg]cb" f&\$%&Ł" *EU GPP Criteria for Transport.*

9i fcdYUb' 7ca a]gg]cb'' f&\$\$% Ł'' *Environment: New EU Action to protect biodiversity against problematic invasive species.*
 \hrd. ##XUHU''Yi fcdU''Yi #Y']#FY[#&\$\$%(#%%(' #c^''

9i fcdYUb' 7ca a]gg]cb'' f&\$\$% Ł'' *AIRUSE - Testing and Development of air quality mitigation measures in Southern Europe*'' FYhf]Yj YX' žca
 \hrd. ##YWYi fcdU''Yi #Ybj]fcb a Ybh#]ZY#dfc ^YV#Dfc ^YVg#]bXYI "Wz a 3Z gY
 UVW]cb1 gYUfVW "XgdDU[Y/ bSdfc ^S]X1 (&)' . 69B9:

9i fcdYUb' 7ca a]gg]cb'' f&\$\$% Ł'' *Buying green! A handbook on green public procurement, 3rd edition, 2016.*''

9i fcdYUb' 7ca a]gg]cb'' f&\$\$% Ł'' *EU GPP Criteria for Office Buildings.*''

9i fcdYUb' 7ca a]gg]cb'' f&\$\$% Ł'' *EU Reference Scenario 2016 Energy, Transport and GHG Emissions Trends to 2050.*''

9i fcdYUb' 7ca a]gg]cb'' f&\$\$%+Ł'' *Guidelines for the application of Directive 2000/14/EC of the European Parliament and of the Council of 8 May 2000 on the approximation of the laws of the Member States relating to the noise emission in the environment by equipment for use outdoors.*''

9i fcdYUb' 7ca a]gg]cb'' f&\$\$%+Ł'' *Live plants and products of floriculture sector in the EU.*''

9i fcdYUb' 7ca a]gg]cb'' f&\$\$% Ł'' *Pesticides*'' FYhf]Yj YX' žca
 \hrdg. ##YWYi fcdU''Yi #ZcX#d`Ubh#dYgh]VXYgSYb'

9i fcdYUb' 7ca a]gg]cb'' f&\$\$% VŁ'' *Public Consultation on an evaluation and possible revision of the Outdoor Noise Directive 2000/14/EC*''
 FYhf]Yj YX' >Ubi Ufm' &\$\$% ž' žca
 \hrdg. ##YWYi fcdU''Yi #]bZc#VŁbgi `hU]cbg#di V`jWVŁbgi `hU]cb!
 Yj U'i U]cb! UbX! dCgg]V'Y! fYj]g]cb! ci hXccf! bc]gY! X]fYVW]j Y! &\$\$\$!%(!
 YV\$Yb'

9i fcdYUb' I b]cb' =bH''YVW' U' DfcdYfmi CZZ]W'' f&\$\$% Ł'' *Tenders Electronic Daily (TED)*'' FYhf]Yj YX' žca
 \hrdg. ##YX''Yi fcdU''Yi #H98 #bch]W# X'3i f]1 H98. BCH=79. . . , %) !
 &\$\$% . H9LH. 9B. <HA @ K H"a V\$]X1 FGG!
 : YX/ K H"fggSZ1 9bj]fcb a Ybhž UbXž GUb]hU]cb/ K H"fggSU1 , . . , %) !
 &\$\$% / K H"fggSYj 1 U'

9i fcghU]h' f&\$\$%) Yž 8YVW'a VYf' +Ł'' *Waste generation by economic activity and households, 2012 (1000 tonnes).png.* FYhf]Yj YX' A UfVW' %) ž' &\$\$% ž' žca
 \hrd. ##YWYi fcdU''Yi #Yi fcghU]h#gU]gh]gh]Vg!
 YI d`U]bYX#]bXYI "d\`d#`]Y. K UghYS[YbYfU]cbSVn\$YVŁbca]V\$UW]j]mSUB
 XS\ci gY\c`XgžS&\$\$%&Sf%\$\$\$ShcbbYgŁ"db[

9i fcghU]h' f&\$\$% Ł'' *Natural gas consumption statistics*'' FYhf]Yj YX' žca
 BUhi fU'' [Ug' VŁbgi a dh]cb' ghU]gh]gh]Vg'
 \hrd. ##YWYi fcdU''Yi #Yi fcghU]h#gU]gh]gh]Vg!
 YI d`U]bYX#]bXYI "d\`d#BUhi fU'S[UgSVŁbgi a dh]cbSghU]gh]gh]Vg'

: 7 ; Ug =bhY`][YbW" f&\$%(Ł" *Europe's Natural Gas and Bio-methane Vehicle Market.*

: @95H" f&\$%\$Ł" *Intelligent Energy Europe : D5.3 Report on monitoring pilot actions.*

: `Y]g\Yfž 9"H" f&\$-\$- Ł" *Harvard Yard Soils Restoration Project Summary Report.*

: CFG" f&\$%* Ł" FYhf]Yj YX' A UfW' ' ž' &\$%* ž' Zfca ' \hdg. ##k k k "Zcfg! cb]bY"cf["i _#Vđ g#k \UH!g! Zcfg#

: DH' =bXi ghf]U" f&\$%* Ł" *Small Size Road Sweepers.* FYhf]Yj YX' A UfW' &\$% ž' Zfca ' \hd. ##k k k "Zdh]bXi ghf]U"Vta #[`cVU`#Yb#8cW a YbHg#CBSFC58"dXZ

; Yfa Ub`6`i Y`5b[Y" f&\$%+Ł" *Basic Criteria for Award of the Environmental Label for Garden Tools.*

; Yfa Ub`6`i Y`5b[Y" f&\$% UŁ" *Kommunalfahrzeuge.* F5@[; a V<"

; : 9" f&\$%* Ł" FYhf]Yj YX' A UfW' ' ž' &\$%* ž' Zfca ' \hd. ##k k k "[fYYbZFY][\hYi fcdY"Yi #

; cj Yfba Ybh`cZ`Gci h\Ua dhcb" f&\$+\$Ł" 7ca dUW' Gk YYdYfg' FYd`UW a Ybh" FYhf]Yj YX' Zfca ' \hdg. ##k k k "gci h\Ua dhcb"[cj "i _#a cXYfb; cj #8UHU#7UV]bYh#&\$+\$* % , #5[YbXU#G\ck 8cW a YbhUgdD? =8(- , +"dXZ

; G!) ' GdYWU`hmi 7`YU]b[` DfcXi Wg' Zcf' =bXi ghf]U' UbX' =bgh]hi h]cbU' I gY" f&\$%+Ł" 9X]h]cb &"(ž'GYdhYa VYf' , ž' &\$%+ "

< Ugej UfbU" f&\$%+WŁ" *Electric Ride On Mowers*" FYhf]Yj YX' >Ubi Ufm) ž' &\$% ž' Zfca ' \hdg. ##k k k "\Uga ck "Vta "Ui #Y`YWF]WF]XY!cb!a ck Yfg

< Um' 8]YgY" f&\$%(Ł" *Ready today for the EU Stage V emission regulation.* FYhf]Yj YX' &\$% ž' Zfca ' \hd. ##k k k "\Um! X]YgY"Vta #Z]YUXa]b# gYfSi d`cUX#Uhm! X]YgY"Vta #VfcW i YfYb#GHU[YSJ S: `mYfS9BS&\$%* "dXZ

< Uj UfX`I b]j Yfg]m' f&\$% Ł" *Sustainability.*

<]fYa UH`ž`A "ž`Yh`U" f&\$%) Ł" 7ca dUfUh]j Y` @]Z' 7mWV`5ggYgga Ybh`cZ`6UhYfm GfcfU[Y`GmgHya g`Zcf`GHU]cbUfm5dd`]WU]cbg" *Environmental Science & Technology, 49f] Łž` (, &)!(, ' ' "*

< c`a VYf[ž' 7c`UXcž` GUfUg]b]ž` / ` K]`]UbXYf" f&\$%* Ł" *Mobility as a Service-MaaS - Describing the framework.*

< cfhk YY_" f&\$%* ž' : YVfi Ufm %\$Ł" *Battery tools*" FYhf]Yj YX' : YVfi Ufm %) ž' &\$% ž' Zfca ' 6UhYfm hcc`g. ' \hdg. ##k k k "\cfhk YY_"Vta #UUhYfm hcc`g#dfcXi Wg! _]h#Ufh]WV#% , &- \$' "

< i gej UfbU" f&\$%+UŁ" *Husqvarna Battery Products*" FYhf]Yj YX' &\$% ž' Zfca ' : cfYghž' dUf_ / [UfXYb. ' \hdg. ##k k k "\i gej UfbU"Vta # g#dfcXi Wg#UUhYfm#

<i gej UfbU" f&\$%+VŁ" *Husqvarna Product Catalogs*" FYhf]Yj YX' Zfca
 <i gej UfbU' DfcZYgg]cbU' DfcXi Vh' 7UHJ`c[g.
 \hfdg. ##k k k "\i gej UfbU"VŁa # g#WUHJ`c[g#

<i gej UfbU'; fci d" f&\$% Ł" *A steadily growing market.*

=77H" f&\$%(Ł"

=77H" f&\$%(Ł" *Real-world exhaust emissions from modern diesel cars.*

=77H" f&\$%(Ł" *The WLTP: How a new test procedure for cars will affect fuel consumption values in the EU.*

=77H" f&\$%) Ł" *Accelerating progress from Euro4/IV to Euro 6/VI vehicle emissions standards.*

=77H" f&\$%* UŁ" *A technical summary of Euro 6/VI.*

=77H" f&\$%* UŁ" *Electric vehicles: Literature review of technology costs and carbon emissions.*

=77H" f&\$%* VŁ" *European Vehicle Market Statistics Pocketbook 2015/16.*
 6Yf`]b. H\Y' =bhYfbUh]cbU' 7ci bWj`cb 7`YUb`HfUbgdcfhUh]cb"

=77H" f&\$%+Ł" *Fuel Efficiency Technology in European Heavy-Duty Vehicles: Baseline and Potential for the 2020–2030 Time Frame.*

=77H' UbX' 9`Ya Ybh' 9bYf[m' f&\$%) Ł" *Quantifying the impact of real-world driving on total CO2 emissions from UK cars and vans .*

=XUYU' ! 7G=7" f&\$%* UŁ" *Review of the impact of street cleaning on PM10 and PM2.5 concentrations in Central & Northern Europe.*

=XUYU' ! 7G=7" f&\$%* VŁ" *The scientific basis of street cleaning activities as road dust mitigation measure.*

=95" f&\$%&Ł" *Status of Advanced Biofuels Demonstration Facilities.*

=95" f&\$%+Ł" *Global EV Outlook.*

=95" f&\$%+Ł" *The Future of trucks - Implications for energy and the environment.*

=99D" f&\$%\$Ł" *Anticipated Indirect Land Use Change Associated with Expanded Use of Biofuels and Bioliquids in the EU – An Analysis of the National Renewable Energy Action Plans.* @cbXcb. `=bgh]hi hY' 9i fcdYUb' 9bj]fcba YbhU' Dc`]Wmif=99DŁ"

=9A' A U[Un]bY" f&\$% Ł" *Maxvac Electra 2.0 Street Sweeper*" FYhf]Yj YX'
 >Ubi Ufm' &\$% ž' Zfca' \hfdg. ##k k k "]Ya i _"VŁa #dfcXi Vhg!
 gYfj]Wg#a UI j UWY`YVfU! &! \$! ghfYYh gk YYdYf#

=GC" f&\$%) Ł" FYhf]Yj YX' A UfVW' ' ž' &\$%* ž' Zfca'
 \hfdg. ##k k k "]gc"cf[#cVd#]#.]gc. ghX.]gc.]k U. %* . YX! % j % Yb'

>97' ! >c]bh' FYgYUfW' 7YbhY! 9I 75F! 7CB75K 9' VŁ"UVcfUh]cb" f&\$%(Ł" *JEC WELL-TO-WHEELS ANALYSIS.*

- >c\Ubggcb" f&\$%* Ł" H\Y`YZZVW cZ XmbUa]WgVW YXi `]b[`UbX` fci h]b[`]b`U`gc`X` k UghY`a UbU[Ya Ybh'gmghYa "" Waste Management"
- >c\bghcb" f&\$%+Ł" Specification configuration of sweepers" F Yhf]Yj YX` Zfca` \ hrd. ##k k k "c\bghcbgk YYdYfg"VŁa #VŁbZ][i fUhc f#VŁbZ][i fUhc f"d\ d`
- >c\bghcb` Gk YYdYfg" f&\$%+UŁ" C201 Compact Road Sweeper- Small and perfectly formed" F Yhf]Yj YX` >Ubi Ufmi &\$% ž` Zfca` \ hrdg. ##k k k "c\bghcbgk YYdYfg"VŁa #k d! VŁbhYbh#i d`cUXg#&\$%+ #%&#VŁ\$%d Y*! VfcVW i fY!' %&\$* "dXZ
- >c\bghcb` Gk YYdYfg" f&\$%+VŁ" F Yhf]Yj YX` >Ubi Ufmi &\$% ž` Zfca` 7]m7Uh &\$&\$Yj .` \ hrdg. ##k k k "c\bghcbgk YYdYfg"VŁ"i _#k d! VŁbhYbh#i d`cUXg#&\$%+ #%&#VŁmWU h &%\$, %+SZmYfSVW\$&\$&\$Yj SYb"dXZ
- >cbUh\ Ub`YH`U"" f&\$%+Ł" C dh]a]n]b[`DYgh`A UbU[Ya Ybh`DfUW]Wg`hc`7cbgYfj Y` Dc` `]bUhc fg] b`Hi fZ @UbXgVWdYg. `7i ffYbh`DfUW]Wg` UbX` : i hi fY`F YgYUfVW` BYYXg" Journal of Integrated Pest Management, 8"
- >ci h]ž` YH`U"" f&\$% Ł" 9VŁhcl]VŁm cZ 5`hYfbUh]j Y` 8Y! =VŁfg" Journal of Soils and Sediments, 3f(Łž &* - Ę +&"
- >F 7" f&\$%&Ł" EU GPP Criteria for Street Lighting & Traffic Signals. `9i fcdYUb` 7ca a]gg]cb"
- >F 7" f&\$%* Ł" Report on VECTO technology simulation capabilities and future outlook.``
- >F 7" f&\$%* UŁ" Preliminary report for the revision of the EU GPP criteria for road transport.``
- >F 7" f&\$%* VŁ" Report on VECTO technology simulation capabilities and future outlook.``
- >F 7" f&\$%+Ł" From NEDC to WLTP: effect on the type-approval CO2 emissions of light-duty vehicles.``
- >F 7" f&\$% Ł" Revision of EU GPP Transport - Technical report and criteria proposal (3rd draft - Feb 2018).``
- >F 7` HYVW b]WV` fYdcfhg" f&\$%* Ł" Technical report and criteria proposal (1st draft): Revision of the EU Green Public Procurement Criteria for Transport.``
- ? Ua Uf []Ubb]ž` A UhmUgž` @ž` / `GVW } ZYf" f&\$%) Ł" Feasibility Study for "Mobility as a Service" concept in London.``
- ? Ui g\U` YH`U"" f&\$%) Ł" Increased salinization of fresh water in the northeastern United States. `DfcVWYX]b[g`cZ` h\Y` BUh]cbU` 5WXYa mi cZ GWYbWg`cZ`h\Y`I b]hYX`GHUhg`cZ`5a Yf]WVž`%\$&ž`%) %+Ę%) &\$"
- ? YZcfx` YH`U"" f&\$%* Ł" GU`]b]nYX` f]j Yfg. `XY[fUXYX` gmghYa g`cf` bYk` \UV]hUhg` Zcf`gU`h`hc`YfUbh`Z]i bUg3` Biology Letters, 12"
- ? f]ghc`ZYfgYb`Yh`U"" f&\$%, Ł" 5`fYj]Yk`cZ`dYgh]WXY`dc`]WYg`UbX`fY[i`Uh]cbg`Zcf` i fVUb`Ua Yb]mUfYUg`]b`gYj Yb`9i fcdYUb`VŁi bhf]Yg"ž" Weed Research, 48ž` &\$%Ę&%(""

@Uf]j]YfYž' J "' f&\$%+Ł" *Live plants and products of floriculture sector in the EU.*

@ck 7JD" f&\$%* Ł" *A Green Bus for every journey.*

@ck 7JD" f&\$%* Ł" *HGV Accreditation Scheme*" F Yhf]Yj YX' Zfca \hfd. ##k k k "ck Vj d"cf["i _#dfc YVWg#Mca a YfWU!j Y\]WY!k cf_]b[! [fci d# \ [j ! UWWYX]hUh]cb! gVX Ya Y"\ha

@ck 7JD" f&\$%* Ł" *Low Emission Buses*" F Yhf]Yj YX' Zfca \hfd. ##k k k "ck Vj d"cf["i _#]b]h]Uhj Yg#YV#< ca Y"\ha

@ck 7JD" f&\$%* Ł" *Low Emission Buses Certificates*" F Yhf]Yj YX' Zfca \hfd. ##k k k "ck Vj d"cf["i _#]b]h]Uhj Yg#YV#@967Yfh]Z]WWhYg"\ha

@ck 7JD" f&\$%+Ł" *Emissions Testing of Gas-Powered Commercial Vehicles.*

A UWc" f&\$%+Ł" *Macro Smart Machines*" F Yhf]Yj YX' Zfca \hfd. ##k k k "a UWcWUUb")h#Yb#a * \$! ghfYYh! gk YYdYfg#

A UXUb\]fY' Yh' U"' f&\$%* Ł" *Mitigating Environmental Impact of Petroleum Lubricants.* fU c"" (Ł" Gdf]b[Yf"

A Uh\ Ymgž' >" Yh' U"' f&\$%- Ł" 7ca dUf]gcb' cZ' h\Y' 9bj]fcb a YbHU']a dUW' cZ') 9`YVWf]WJ Y\]WY' 6UHfYfm hYVWbc`c[]Yg' i g]b[' @75" *International Journal of Sustainable Manufacturing, 1ž' % !' &- "*

A W]bgYmř 7ca dUbn' f&\$%&Ł" *Lighting the way: perspectives on the global lighting market.* A W]bgYm'

A YXnbUž' Yh' U"' f&\$%* Ł" *Development of the EU Ecolabel Criteria and Revision of the EU GPP Criteria for Indoor Cleaning Services Technical Report and Criteria Proposal Third Draft.*

A YfWXYg! 6Ybn" f&\$%(ž' CVWcVYfŁ" @ZY' 7mWY' 9bj]fcb a YbHU' 7Yfh]Z]WWhY' A YfWXYg! 6Ybn' 6! 7`Ugg' 9`YVWf]W8f]j Y"

A]mU[Uk U"' f&\$%* Ł" Hf]d' `Yb[\h' UbX' gi ZZ]WYbh' bi a VYf' cZ' U`hYfbUhj Y' Ž' Y' ghUh]cbg" *Urban and regional planning review*"

B]ggUb' A chcf"' f&\$%* Ł" 7cfdcfUh]cb' Gi ghU]bUV]]miF Ydcfh'

BcfX]W9WŁ`UVY``]b["' f&\$% Ł" *Machines for Parks and Gardens - Background to Ecolabelling.*

BcfX]W9WŁ`UVY``]b["' f&\$%* UŁ" *Nordic Ecolabelling of De-icers.*

BcfX]W9WŁ`UVY``]b["' f&\$% Ł" *Machines for Parks and Gardens.*

BcfX]W9WŁ`UVY``]b["' f bY' &\$%* Ł" *Industrial cleaning and degreasing agents.* 7f]hYf]U`XcW a Ybh! ' j Yfg]cb' "\$"dXZ"

C 978" f&\$%&Ł" *OECD Workshop on waste prevention: towards performance indicators.* DUf]g. C 978 ` \YUXei UfhYfgž' "

C ZZ]W' Zcf' ÷bZUghfi Wf fY' UbX' @c[]gh]Wg']b' @ I Ya Vci f[ž' 9i fcdYUb' 7ca a]gg]cb" f&\$%(Ł" *Tenders Electronic Daily*" F Yhf]Yj YX' Zfca \hfdg. ##YX"Yi fcdU"Yi # X' 3i f]1 H98. BCH=79. %&\$\$() ! &\$%(. H9LH. 9B. <HA @

% (

C`ggcbž C"ž ; fUi Yfgž 5"ž / `DYHfYfgcbž G" f&\$\$* Ł" A Yh\cX` hc` UbU`mY` Vtgh`
YZZYVWj YbYgg` cZ X]ZZYfYbh` Y`YVWf]WVi g` gmghYa gž` 9J G&-` Gma dcgji a ž`
EVS29 Symposium, June 19-22. A cbhfU`

DYf_]bg` 9b[]bYg` 7ca dUbmI @]a]hYX" f&\$\$ Ł" FYhf]Yj YX` Zfca` 9I` GHU[Y` J`
ghUbXUfXg.`
\hhdg. ##k k k "dYf_]bg"Vta #YbS; 6#dfcXi Wtg#Ya]gg]cbgSHYVWbc`c[m#Ya]
gg]cbg#ghU[Y!j !ghUbXUfXg#ghU[Y!j !cbhfUW`"ha`

D]`chž 7" f&\$\$* Ł" *The rechargeable Battery market and main trends 2015 - 2025.*

DfcdhY_" f&\$\$+Ł" *Environmental Impact & Recycling*` FYhf]Yj YX` Zfca`
\hhdg. ##k k k "dfcdhY_"Vta #gi ddcfh#Ybj]fcb a YbhU!]a dUW`

Di V`]WHfUbgdchJ]Wcf]U" f&\$\$, Ł" *Anti-Graffiti Protection of Concrete.*

E i]bhYfcž F" F"ž Yh`U" f&\$\$ Ł" *Revision of the EU Green Public Procurement
Criteria for Transport.* 9i fcdYUb` 7ca a]g]cbž`>c]bh`F YgYUfW` 7YbhYf`

F Ua U_f]g`bU` 8"A " / `J]fUfU[\Uj Ubž` H" f&\$\$) Ł" 9bj]fcb a YbhU`]a dUW` cZ
VWYa]W`XY]Wfg` Ě`U` fYj]Yk " *Water, Air, and Soil Pollution, 166ž (- Ě*
* " "

F 97C8F =J 9" f&\$\$*Ł" FYhf]Yj YX` A UfW` ' ž` &\$\$* ž` Zfca`
\hhd. ##k k k "fYVtXf]j Y"Yi #]bXYI "d`ha` 3]X1 %\$\$ / =8%1 / gdfUWY1 Yb`

FY[i `Uh]cb` f]l Ł` Bc` %&\$(" #&\$(" fb"X"Ł" *Regulation (EU) No 1143/2014 of
the European Parliament and of the Council of 22 October 2014 on
the prevention and management of the introduction and spread of
invasive alien species.*

F]WfXc" f&\$\$ Ł" *Preparing a low CO2 technology roadmap for buses.*

F]WfXc" f&\$\$ Ł" *Preparing a low CO2 technology roadmap for buses, s.l.:
Ricardo.*

F]WfXc" f&\$\$* Ł" *Improving understanding of technology and costs for CO2
reductions from cars and LCVs in the period to 2030 and.*

F]WfXc` 595" f&\$\$&Ł" *Opportunities to overcome the barriers to uptake of
low emission technologies for each commercial vehicle duty cycle.*

F]WfXc` ; UfXYbg" fb"X"Ł" *Gardens Maintenance in Marbella, Mijas and
Benalmadena*` FYhf]Yj YX` GYdhYa VYf` % ž` &\$\$ ž` Zfca`
\hhdg. ##k k k "f]WfXc[UfXYbg"Yg#Yb#[UfXYbg] a U]bhYbUbW! a UfVY`U!
a]Ug#`

F]WfXc! 595" f&\$\$) Ł" *Provision of HGV Emissions Testing.*

F]h\cZž` A " f&\$\$*Ł" *LCA for Calcium Magnesium Acetate (CMA).* FYhf]Yj YX`
Zfca` \hhd. ##k k k "]ZY!
Vt U"Uh#Xck b`cUXg#.]bU`SF YdcfhS@7 5SZcfS7A 5S8Ua U[Yg"dXZ`

F cVYfh` 6cgW` ; a V<" f&\$\$ Ł" *Bosch Professional cordless garden tools*`
FYhf]Yj YX` Zfca` \hhdg. ##k k k "VcgW!

dfcZYgg]cbU"Vta #ghUj]WgdYVU`g#Vt`fX`Ygg! [UfXYb! hcc`g#[V#Yb#, ghcfm)

FcVYfh 6cgVW ; a V<" fb"X"Ł" *Bosch Professional cordless garden tools*" F Yhf]Yj YX' A UfVW' &\$ž' &\$% ž' Zfca' \hhdg.##k k k "VcgVW! dfcZYgg]cbU"Vta #ghUj]WgdYVU`g#Vt`fX`Ygg! [UfXYb! hcc`g#[V#Yb#

Fc`UbX' 6Yf[Yf" f&\$%) Ł" *Fuel Cell Electric Buses – Potential for Sustainable Public Transport in Europe.* : i Y`7Y`g`UbX' <mXfc[Yb`>c]bhI bXYfhU_]b[ft 7<`>Ł"

GUa UfUgž' 7cbghUbh]bYž' UbX' ? mY`A Y]ghYf`]b[" f&\$\$, Ł" @ZY' 7mWV' 5ggYgga Ybh cZ' ; fYYb\ci gY' ; Ug' 9a]gg]cbg' Zfca' D'i [!]b' <mVf]X' J Y\]WVg. =a d`]WVh]cbg' Zcf' Dc`]WV' *Environmental Science & Technology, 42ft`Łž' %+\$Ē+*"*

GUb' : fUbV]gVt' 8YdUfha Ybh cZ' h\Y' 9bj]fcb a Ybh' f&\$%(Ł" *Safer Alternative Graffiti Management Methods for California 2014.*"

GUb`YYj Ubž' YH' U" f&\$+\$+Ł" *Removal of graffiti from the mortar by using.* 5dd`Gi fZGW"

GUba Ufhb' YH' U" f&\$%(Ł" 7i ffYbh' a Yh\cXg' cZ' [fUZ]h] fYa c] U. 5' fYj]Yk" *Construction and Building Materials, 71ž' *' !' +("*

GUj Ymbž' <"ž' UbX' 9XYfž' D" f&\$%(Ł" *End-of-waste criteria for biodegradable waste subjected to biological treatment (compost & digestate): Technical proposals.* 9i fcdYUb' 7ca a]gg]cb' >c]bh' FYgYUfVW' 7YbhfYž' GYj]`Yž' GdU]b"

Ga]Y!Y]bZUW a cV]" fb"X"Ł" *smile-einfachmobil*" F Yhf]Yj YX' Zfca' \hhd.##ga]Y! Y]bZUW a cV]" Uh#]bXYI SYb"\ha`

Gbck' UbX' =W' 8UHUVcc_" f&\$%(Ł" F Yhf]Yj YX' Zfca' \hhd.##k k k "j Y`X]fY_hcfUhYH'X_#85#j Y`gY_hcf#]bhYf#cf[Ub]gUh]cb#]bhY fdi V`_Uh]cbYf#fUddcfhYf#]bhYfbUh]cbU`Y! di V`_Uh]cbYf#8cW a Ybhg#D=5F 7#&\$%(žG=86! 9B! K]bhYf! GYfj]W! K cf`X! FcUX! 5ggcV]Uh]cb"dXZ

Gcf][i Y" fb"X"Ł" *Street cleaning and park and garden maintenance*" F Yhf]Yj YX' GYdhYa VYf' % ž' &\$% ž' Zfca' \hhdg.##k k k "gcf][i Y"Vta #Yb#UbXgWdY! UbX! Ybj]fcb a Ybh#gfhYYh WYUb]b[!dUf_! [UfXYb! a U]bhYbUbW'

GH<=@' f&\$% Ł" *Cordless Li-Ion lawn mowers*" F Yhf]Yj YX' Zfca' \hhdg.##k k k "gh]\`"Vt"i _#GH<=@ DfcXi Wg#GH<=@ 7cfX`Ygg! Dck Yf! GmghYa g#DF C! 7cfX`Ygg! Dck Yf! GmghYa !Zcf! `Uf[Y! [UfXYbg! UbX! dfcZYgg]cbU`g#%) - %#7cfX`Ygg! @! =cb! `Uk b! a ck Yfg"UgdI`

GH= 5" f&\$%+Ł" F Yhf]Yj YX' Zfca' , \$' Jc`h' @]h]j i a !=cb' @Uk ba ck Yfg. \hhdg.##k k k "gh][U`Uk ba ck Yfg"Vt"i _#dfcXi Wg#Uk ba ck Yfg#, \$!j c`h]h]j i a !]cb! `Uk ba ck Yfg`

GH<@' f&\$% ž' GDF =B; ' =GGI 9' -Ł'' PROLINE.' FYhf]Yj YX' žca
 \hrg. ##jggi i "Vta #gh\"!
 WbUXU#XcVg##&\$% Sgdf]b[Sdfc`]bYS]ggi Y\$- SYbSk YVSj \$%

GH<@' f&\$%+UŁ'' PROLINE - A PUBLICATION FOR CANADIAN PROFESSIONALS.'

GH<@' f&\$%+VŁ'' PROLINE - A PUBLICATION FOR CANADIAN PROFESSIONALS.'

SWEEP PROJECT'' fb"X"Ł'' FYhf]Yj YX' žca ' \hrg. ##k k k "k i f"b`#Yb#FYgYUfVW!
 FYgi `hg#Dfc`YVWg! UbX! dfc[fUa a Yg#GK 99D#FYgi `hg\"ha

Gk]mYf`UbX' : XYfU`CZ]W' Zcf`h`Y' 9bj]fcb a Ybh' f&\$%) Ł'' Non-road energy consumption and pollutant emissions.' Gk]mYf`UbX.' Gk]mYf`UbX' : XYfU`CZ]W' Zcf`h`Y' 9bj]fcb a Ybh'

HYWbUj]c' FYgYUfVW'' f&\$%* ž' : YVfi UfmŁ'' Technavio Announces Top four Emerging Trends Impacting the Global Electric Lawn Mower Market Through 2020'' FYhf]Yj YX' >Ubi Ufm &\$% ž' žca
 \hrg. ##k k k "Vi g]bYggk]fY"Vta #bYk g#\ca Y#&\$%* \$&&- \$\$) , ') #Yb#HYW
 \bUj]c! 5bbci bWg! Hcd! 9a Yf[]b[!HfYbXg! =a dUW]b[!; `cVU`

H`Y' 6UHyfmi I b]j Yfg]hm' f&\$% Ł'' BU-103: Global Battery Markets'' FYhf]Yj YX' žca
 \hrg. ##VUHyfmi b]j Yfg]hm'Vta #YUfb#Ufh]WY#[`cVU`SVUHyfmiSa Uf_Yhg

H`Y' HYbbUbh' 7ca dUbm' f&\$%&Ł'' 500ze -The First in a New Generation of Electric Sweepers.' FYhf]Yj YX' : YVfi Ufm &\$% ž' žca
 \hrg. ##WUba UW]bY"gy#k d! VŁbhYbh#i d`cUXg##&\$%&#%#%#Ci hXccf!
) \$\$nY"dXZ

HBC`f7 =] =H5G`K =? =Ł'' f&\$% Ł'' Clean Buses for your city : Smart choices for cities.' HBC''

HBC`f7 =] =H5G`K =? =Ł'' f&\$%* ž' & &+Ł'' Smart choices for cities - Clean buses for your city.' FYhf]Yj YX' &\$%*

HBC'' f&\$%&Ł'' Reduction of vehicle noise emission - Technological potential and impacts.'

HBC'' f&\$%&Ł'' Reduction of vehicle noise emission - Technological potential and impacts.'

HBC'' f&\$%* Ł'' Study on the suitability of the current scope and limit values of Directive 2000/14/EC.'

HfU`YVW` A cV`]]mi A UbU[Ya Ybh' f&\$%+Ł'' Final Publishable Report of the Cyclelogistics Ahead.'

HfUbgdcfh/` 9bj]fcb a Ybh' fb"X"Ł'' Transport & Environment'' FYhf]Yj YX' žca
 \hrg. ##k k k "hfUbgdcfhYbj]fcb a Ybh'cf[#bYk g#a Ydg! WJ`! a UbXUhcfm
 YVŁ! Xfj]b[!a YHyfg

HfUbgdcfhUh]cb` FYgYUfVW' 6cUfX'' f&\$%+Ł'' Report 577.' BUh]cbU` 7ccdYfUh]j Y
 <][\k UmFYgYUfVW` Dfc[fUa` fB 7 < F DŁ''

Hg]U_a U_]gž : cbhUfUgž 7]i Zcž / ' GUa UfUg" f&\$%+Ł" 5' g]a i `Uh]cb! VUgYX`
a Yh\cXc`c[mZcf`ei Ubh]Zm]b[`9i fcdYUb`dUggYb[Yf" *Applied Energy*"

I =HD" f&\$%) Ł" 6i g`GmghYa g`]b`9i fcdY` . `Hck UfXg`U` <][\Yf`E i U`]hmcZ I fVUb`
@]Y` UbX`U` FYXi W]cb`cZ Dc`i hUbhg`UbX`7C&`9a]gg]cbg" 6fi ggY`g. `H\Y`
=bhYfbUh]cbU`5ggcV]Uh]cb`cZDi V`]WHfUbgdcfh`fi =HDŁ"

I =HD" f&\$%) Ł" *BUS SYSTEMS IN EUROPE : TOWARDS A HIGHER QUALITY OF URBAN LIFE AND A REDUCTION OF POLLUTANTS AND CO₂ EMISSIONS.*"

I B`9bj]fcba Ybh" f&\$%* Ł" *New pest control techniques for Kenya's flower hub*"` FYhf]Yj YX` Zfca` \hrg. ##k k k "i bYbj]fcba Ybh`cf[#bYk g! UbX!
ghcf]Yg#ghcfm#bYk !dYgh Včbfc`!hYVb]ei Yg! _YbrUg! Zck Yf! \i V`

I B979" f&\$%(Ł" *Consolidated Resolution on the Construction of Vehicles.*"

J]XU! 5VUfW] ; Uff]Xcž YH`U" f&\$% Ł" *Final Technical Report: Revision of the European Ecolabel Criteria for Lubricants.* GYj]`Y. `>c]bh` FYgYUfW`
7YbhY`9i fcdYUb`7ca a]gg]cb"

J]XU! 5VUfW]ž 7" YH`U" f&\$%* Ł" *Revision of European Ecolabel Criteria for Lubricants - Preliminary Report.* >F 7`HYVb]W]`FYdcfh`

J]_]b[" f&\$%&ž A UfWŁ" *VIKING battery-powered lawn mowers receive "Blue Angel" environmental label*"` FYhf]Yj YX` >Ubi Ufm` &\$% ž` Zfca`
\hrg. ##k k k "j]_]b[! [UfXYb"Vča #J =? =B; !VUhfYfm!dck YfYX!`Uk b!
a ck Yfg! fYW]j Y! 6`i Y! 5b[Y`Ybj]fcba YbhU!`UVY"Ugd!

K Ug\]b[hcb`GHUy`8YdUfha Ybh`cZ`9bhYfdf]gY`GYfj]Wg`fB9GŁ" f&\$% Ł" *Green Purchasing Best Practices: Deicers.* K Ug\]b[hcb`GHUy`8YdUfha Ybh`cZ`
9bhYfdf]gY`GYfj]Wg`fB9GŁ"

K][\ha Ubž`Yh`U" f% - - Ł" *Life-Cycle Assessment of Chainsaw Lubricants Made from Rapeseed Oil or Mineral Oil.* H\Y`FY[]cbU`=bgh]h`hY`%+` "

K]bhYf`DUf_]b[`@ch`UbX`G]XYk U`_`A U]bhYbUbW`A Ubi U" f&\$%) Ł" A]bbYgchU`
Dc`i h]cb` 7cbhfc" FYhf]Yj YX` Zfca`
\hrg. ##XY]W]a UbXUj Y"Z]Yg" k cfXdfYgg"Vča #&\$%(#\\$- #dUf_]b[`cha Ubi U`
!`i bY\$* %"dXZ

K F5D" f&\$% Ł" *Case Study: Water Efficiency on construction sites - Technological solutions offer savings at high-staff level site.*"

K f][\hcb" f&\$%+Ł" *Cyclelogistics Ahead – Monitoring and Evaluation Report.*"

k k k "hcdHyb"VX" f&\$% Ł" https://www.topten.ch/private/products/lawn_mowers"` FYhf]Yj YX`
>Ubi Ufm` &\$% ž` Zfca` I a k Y`hZfYi bX`]W]Y`i bX``Y]gY`F UgYba } \Yf` &\$% .`
\hrg. ##k k k "hcdHyb"VX`#df]j UHy`#dfcXi W]g#Uk bSa`ck Yfg`

Mci b[ž`G"@` f&\$%+Ł" 5`gmghYa Uh]WfYj]Yk`cZ`h`Y`hYfUhi`fY`fYj`YU`g`hfYbXg`UbX`
[Udg`]b`]bhY[fUHfYX`dYgh`a`UbU[Ya`Ybh`ghi`X]Yg`VčbXi`W]YX`]b`h`Y`I`b]hYX`
GHUy`gž" *Pest Management Science, 73fi, Łž%)`!%)`),`"*

NY9I G'dfc^W" f&\$%+L" ZeEUS eBus Report An overview of electric buses in Europe.

; 9HH=B; 'B HCl 7< K =K H< 9'9I '

=b dYfgcb'

5''cj Yf'hY'9i fcdYUbl b]cb'hYfY'UfY'i bXfYXg'cZ'9i fcdY'8]fYVh]bZcfa Uh]cb'WbhfYg''Mti 'Wb'Z]bX'hY' UXXfYgg'cZ'hY'WbhfY'bYUfYghmci 'Uh '\.Htd.##Yi fcdYU"Yi #VcbhUVh'

Cb'hY'd\cbY'cf'VmYa UJ'

9i fcdY'8]fYVh]g'U'gYfj]W'hUhUbgk Yfg'mci f'ei Ygh]cbg'UVci h'hY'9i fcdYUbl b]cb''Mti 'Wb'VcbhUVh'h]g' gYfj]W.'

! VmZfYd\cbY. '\$\$', '\$\$*' '+', '- '%\$'%%fWfhU]b'cdYfUhcfg'a UmVUf[Y'Zcf'hYgY'W'gkz

! Uh'hY'Z'ck]b['ghUbxUfX'bi a VYf. 'Z' '&&- -- * - * Z'cf

! VmY'YVfcb]Wa UJ'j]U. '\.Htd.##Yi fcdU"Yi #VcbhUVh'

: =B8=B; 'B: CFA 5H=CB '56CI H'H< 9'9I '

Cb'YbY'

=bZcfa Uh]cb'UVci h'hY'9i fcdYUbl b]cb']b'U'hY'cZ]VU''Ub[i U[Yg'cZ'hY'9i 'jg'Uj]UV'Y'cb'hY'9i fcdU' k YVg]h'Uh '\.Htd.##Yi fcdU"Yi '

9I 'di V]Vh]cbg'

Mti 'Wb'Xck'b'cUX'cf'cfXYf'ZfYY'UbX'df]WX'9I 'di V]Vh]cbg'Zca '9I '6cc_g\cd'Uh '

[\Htd.##Vcc_g\cd"Yi fcdU"Yi "](#)'A i 'hd'Y'Vtd]Yg'cZ'ZfYY'di V]Vh]cbg'a UmVY'cVhU]bYX'VmVcbhUVh]b['9i fcdY' 8]fYVh]cf'mci f'cW'']bZcfa Uh]cb'WbhfY'fgY'Y'\.Htd.##Yi fcdU"Yi #VcbhUVh' "

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