



e-Manufacturing Solutions

DD %%%%

DD 9CG; a V< ! '9'YWffc 'Cdh]WV`GmghYa g

A YW Ub]WV`dfcdYfh]Yg	J U`i Y	I b]h	HYgh`GHJbXUfX
=ncX`]a dUVW`ghfYb[ h`fZ &' \$7t	'	_>#a	=GC`%a \$#d

' 8`8UHJ	J U`i Y	I b]h	HYgh`GHJbXUfX
H\Y dfcdYfh]Yg cZdUfhg a Ubi ZUVW`fYX`i g]b[ 'UX]h] Y`a Ubi ZUVW`f]b[ 'hVW`bc`c[ mFy[" "'UgYf`g]bhYf]b[ z ghYfYc`]h`c[ fUd\mz` : i gYX`8Ydcg]h]cb A cXY`]b[ z`' 8`df]b]b]b[ E`UFYZ Xi Y`h` h`Y]f`'UmYf`Vmi`UmYf`dfcXi W]j]cbz`h`c`gca Y`Yi`hYbhX]fYVW]cb XYdYbXYbH`H\]g`Ug`h` VY`V`bg]XYfYX`k`Yb`XYg][ b]b[ 'h`Y`dUfh`UbX`XYZ]b]b[ 'h`Y`Vi`]X`cf]YbH]h]c`b` HYbg]Y`A`cXi`i`g			=GC`)`&+
L`8]fYVW]cb	%&\$ \$	A DU	
M8]fYVW]cb	%&\$ \$	A DU	
N`8]fYVW]cb	%&\$ \$	A DU	

HYbg]Y`GHfYb[ h`			=GC`)`&+
L`8]fYVW]cb	&+	A DU	
M8]fYVW]cb	&+	A DU	
N`8]fYVW]cb	&\$	A DU	

GHfU]b`UhVfYU`			=GC`)`&+
L`8]fYVW]cb	%&	I	
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H\Yfa U`dfcdYfh]Yg	J U`i Y	I b]h	HYgh`GHJbXUfX
A Y`h]b[ 'hYa dYfUhi`fY`f&\$ \$7#a`]b`	%(\$	\$7	=GC`%%`)`+!`%#`'

Ch`Yf`dfcdYfh]Yg	J U`i Y	I b]h	HYgh`GHJbXUfX
8Ybg]hm`fUgYfg]bhYfYXt	, -)	_ [#a	9CG`A`Yh`cX
Dck XYf`V`c`i`f`fUW`h`c`gUZ]hmXUHJ`g\YYt	<b>BUhi`fU`'7c`ci`f`</b>	<b>!</b>	<b>!</b>
7c`ci`f`cZ`h`Y`V`a`dcbYb]g	<b>BUhi`fU`'7c`ci`f`</b>	<b>!</b>	<b>!</b>

7\UfUWVf]gh]Vg

DfcWgg]b[ @UgYf`G]bhYf]b[ z`F`Ud]X`Dfchcmd]b[

7\Ya ]WV`F`Yg]ghJbWV ; YbYfU`7\Ya ]WV`F`Yg]ghJbWV

8Y`j] YfmZcfa Dck XYf

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@Ugh`W`Ub[ Y`' &\$% !%& && Gci`fVW` . k k k`a`UHf]U`XUHJW`bhYf`V`a DU[ Y`' %&#% H\Y`XUHJ`W`ffYgdcX`h`c`i`f`\_bck`YX`Y`UbX`Yi`dYf]YbWV`Uh`h`Y`h`a`Y`c`Z`di`V`]WVh]cb`H\YmXc`b`ch`b`h`Y]f`c`k`b`fYdfYgYbH`U`gi`ZZ]VYbh`V`Ug]g`Zc`f`UbmdUfh`XYg][`bz`b`Y]h`Yf`Xc`h`Ym`dfc]`XY`Ub`m`U]`fY`Ya`Ybh`U`Vci`h`c`f`[`i`UFUbh`Y`h`Y`gdYVWZ]WdfcdYfh]Yg`c`Z`U`dfcXi`W`h`c`f`dUfh`c`f`h`Y`gi`]hUV]`]hm`c`Z`U`dfcXi`W`h`c`f`dUfh`Zc`f`U`gdYVWZ]WUdd`]WVh]cb`"-h]g`h`Y`fYgdc]b]V]`]hm`c`Z`h`Y`dfcXi`W`f`c`f`W`ghca`Yf`c`Z`U`dUfh`h`c`W`Y`W`\_]hg`dfcdYfh]Yg`Ug`k`Y`Ug`]hg`gi`]hUV]`]hm`c`Z`U`dUfh]W`Uf`di`f`dcgY`" H\]g`U`gc`Udd`]Yg`fY[`UFX]b[`h`Y`V`bg]XYfU]h]c`b`c`Z`dcg]V`Y`]bhY`Y`W`U`dfcdYfh]Yg`]hg`Ug`k`Y`Ug`Uk`g`UbX`fY[`i`U]h]cbg`H\Y`XUHJ`UfY`gi`V`Y`W`h`c`W`Ub[`Y`k`]h`ci`h`b`ch]W`Ug`dUfh`c`Z`9CG`Gfi`W`b]h]bi`ci`g`XYj`Y`cda`Ybh`UbX`ja`dfc]`Ya`Ybh`dfc`W`ggYg`