



THE CONSTRUCTION
A



2023 Surety Bonding and Construction
Risk Management Conference

2023: An ESI Odyssey

&&

&

., - ., . + & / 0 & 1 2 3 & 4 5 6 7 7 \$ 6 &

&

&

&

' ! "" # \$ % & ' () * + % , - . / + . 8 ' , " 1 / # H ' , + # ' # = % B > , ? % 7 ' % - ' + > 5 1 7 6 ' 1 7 H ' + 1 H ' 1 6 ' % 7 # ' % - ' ? , 6 ' 5 1 S % ' ' , + # 5 # 6 ' 1 7 H ' / + 1 " 1 / , # " 6 8 ' , + # ' # = % B > , ? % 7 ' % - ' 1 ' / % 5 N > , # " 8 ' U (3 J ' F @ @ @ 8 V ' , % ' 1 ' , + ? 7 0 ? 7 \$ 8 ' 6 # 7 , ? # 7 , ' 4 # ? 7 \$) '

' W + ? B # ' , + ? 6 ' 1 " , ? / B # ' D ? B B ' 7 % , ' 1 H H " # 6 6 ' , + # ' # = % B > , ? % 7 ' % - ' + > 5 1 7 6 8 ' ? , ' H % # 6 ' , " 1 / # X ' , + # ' , # / + 7 % B % \$? / 1 B ' # = % B > , ? % 7 ' % - ' + % D ' B ? , ? \$ 1 7 , 6 ' / % 5 5 > 7 ? / 1 , # ' ? 7 ' , + # ' # B # / , " % 7 ? / ' # " 1 Y ' + % D ' , + # ' N " % B ? - # " 1 , ? % 7 ' % - ' / % 5 N > , # " " # / " H 6 ' 1 7 H ' / % 5 N > , # " ? T # H ' / % 5 5 > 7 ? / 1 , ? % 7 ' Z # B # / , " % 7 ? / 1 B B & ' 6 , % " # H ' ? 7 - % " 5 1 , ? % 7 8 ' U L [\ V] ' + 1 6 ' / 1 > 6 # H ' H ? 6 / % = # " & P " # B 1 , # H ' H 1 , 1 ' , % ' # M N B % H # ' ? 7 ' = % B > 5 # ' 1 7 H ' / % 5 N B # M ? , & Y ' + % D ' , + # ' B # \$ 1 B ' 6 & 6 , # 5 R 6 ' # = % B > , ? % 7 ' % - ' H # 1 B ? 7 \$ ' D ? , + , + # 6 # ' H ? 6 / % = # " & ' / + 1 B B # 7 \$ # 6 ' + 1 6 ' 7 # / # 6 6 1 " ? B & ' B 1 \$ \$ # H ' 4 # + ? 7 H ' , # / + 7 % B % \$ & Y ' + % D ' , # / + 7 % B % \$ & Z B ? O # ' 1 " , ? - ? / ? 1 B ' ? 7 , # B B ? \$ # 7 / # 8 ' ' ^ ' B 1 ' (3 J ' F @ @ @] ' ? 6 / 1 , / + ? 7 \$ > N ' , % ' N % , # 7 , ? 1 B B & ' 1 6 6 ? 6 , ' ? 7 ' 5 1 0 ? 7 \$ ' , + # ' / + 1 B B # 7 \$ # 6 % - ' L [\ ' 5 % " # ' '

#"
"

" \$"



' 3 7H' 5 > / + 'B?', ?\$1, ?%7' #76 > #H' % = #'' , + ?6' ?66 > #)'' ' ++ % + 01% 23435) 6 + % 7% 8 9 ' % :) ; 43 ; 01% ; 9c'A)G)K)' : @F'Z [(K)C)E)' ; @@ : JY' / ++ %) 5 / < 8' = > % ? + % @ + 3 ; A0% B ; ++ > % C < 3D > A > 0% ' A > 05 + E ' + ; 7 + % F < GG + + % & > DAD ; 3 / D% HADA OI 8' : d9' AGK' dcd' Z [KCE' ; @ ; ;]&

' O + > 68' # 5 # '\$ # H' , + # # ' 1' % - , + # ' UB ? , ?\$1, ?% 7' + % BHV' ` ' / % > , ' 5 17H1, #H'H?' # / , ? = # 6' - "% 5 ' B1D & # " 6' , % / B? # 7, 6' 17H' - "% 5 ' / B? # 7, 6' , % , + # ? " " ? 7, # " 71B' " # 6% > " / # 6' , % ' N' # 6# " = # ' 1BB' L [\ ' " # B1, ? 7\$, % ' 1' B? O # B & ' % " ' 1 / , > 1B' H? 6N > , #)''

' 3 7H' B?, ?\$1, ?% 7' # 76 > # H)'' 3 , , ? 5 # 68' / % > , ' 6' 617 / , ?% 7# H' B1D & # " 6' 17H e " " / B? # 7, 6' - "% 7% , ' N' # 6# " = ? 7\$, + 1, ' D + ? / + ' 6 + % > BH' + 1 = # ' 4 # # 7' N' # 6# " = # H)'' = - I%

' 3 , - '? 6, 8' B1D & # " 6' , "? # H' , % ' 1HH' # 66' H? 6 / % = # ' & '? 7' , + # - 1 / # ' % - , + ? 6' H1, 1P4B% % 5 ' 16' , + # & ' + 1H' , + # % BH' + 1' HP / % N & ' H% / > 5 # 7, 6' ` " " # = ? # D? 7\$, + # 5 ' % 7# ' 4 & ' % 7#)'' O + ? 6' D16' , ? 5 # / % 76 > 5 ? 7\$ 8' = # " & ' / % 6, B & 8' ? 7# -- ? / ? # 7, ' 17H8' ? 7' 4? \$' / 16# 68' = ? " , > 1BB & '? 5 N% 66? 4B#)'' K? 6 / % = # " & ' / % 6, 68' 1BD1 & 6' 1' 6? \$ 7' - ? / 17, ' N% " , ?% 7' % - ' B?', ?\$1, ?% 7' 4 > H\$ # , 68' 7% D' 4# / 1 5 # ' 1' B? 7# ? , # 5 ' , + 1, % - , # 7' HD1' - # H' , + # % , + # " 16N# / , 6' % - , + # ' 4 > H\$ # ,)''

' O + # 78' B1D & # " 6' 4# \$ 17' , % ' 5 NB% & ' , + # , # / + 7% B% \$? / 1B' , % % B6' , + 1, ' D# " # ' 1 = 1? B14B# , % , + # 5 ' 1, ' , + # , ? 5 # ` ' # 1' B & ? , # 1, ?% 76' % - ' B?, ?\$1, ?% 7' 6N# / ? - ? / ' L [\ ' 5 171\$ # 5 # 7, ' 6% - , D1' # , + 1, ' N# " 5 ? , # H' 6# 1' / + P, # " 5 ' 416# H' " # = ? # D8' 6% " , ? 7\$ ' 17H' 6# B# / , ? 7\$, + # H1, 1' , % , " & ' , % ' + % 5 # ' ? 7' 7' D + 1, ' D16' 5 # 17? 7\$ - > B)'' J 1D & # " 6' 17H' / % 76 > B, 17, 6' , "? # H' , % ' / " # 1, # , 1" \$ # , # H' 6# 1' / + , # " 5 68' / > 6, % 5 ? T# H' , % , + # H? 6N > , # 17H' , + # ' 7 - % " 5 1, ?% 7' ? 7' , + # H1, 1' 6# , 8' , % ' 1, , # 5 N, ' , % 6# N1' 1, # , + # D + # 1, ' - "% 5 ' , + # / + 1 --)'' _ > , ' , + ? 6' D16' ? 5 N# " - # / , ' 17H' 7# / # 661" ? B & ? 5 N" % N# " B & ' / 1N, > " # H' ? " " # B = 17, ' H% / > 5 # 7, 6' 17H' ? 5 N" % N# " B & ' # M / B > H# H' " # B = 17, ' H% / > 5 # 7, 6)''

' Q % " # % = # " 8' B1D & # " 6' - % " , + # ' N1' , ? # 6' , & N? / 1BB & # 5 41" O# H' % 7' , + # 6# ' # M# " / ? 6# 6' 16' , + # & ' + 1H' ? 7' , + # ' N16, ' ` ' % 7' , + # ? " " D7' D?, + , + # ? " " / B? # 7, 68' D?, + % > , ' / % 76 > B, ? 7\$ ' D?, + , + # ? " " 1H = # " 61" ? # 6)'' J 1D & # " 6' 1" \$ > # H' 14% > , ' , + # 6# ' ? 66 > # 68' # M, # 76? = # B &)''

' 3 7H' B?, ?\$1, ?% 7' # 76 > # H)'' ' + + I% + OR' J . 5 + / % 7I% K + L % M < ; 6% FAD. 8' ; @ 9f' WJ' d @ cc9d' Z [KCE' ; @ 9f)''

h 'B1D'/%>BH'N"%H>/# 5 %"#,1?B%"#H'H?6/%=#"&"#b>#6,6'?'-,+#&'
UINN"%1/+##H'H?6/%=#"&"#6N%76?4B&8'16'iAG* . 'G>B#'; fj' 5 17H1,#68'
17H' 5 #, '17H'/%7-#"#H'4#-%"#?7?,?1,?7\$'H?6/%=#"&8'17H'6'5 NB&'
H?6/>66#H'D+1,',+#'1 5 %>7,'?'/%7,"=#"6&'?68'17H'+%D' 5>/+8'D+1,'
,&N#8'17H'?7'D+1,'6#b>#7/#8'H?6/%=#"&'6+%>BH'4#'/%7H>/,##H'6% ',+1,'
,6'/%6,' k ',%1BB'N1",?#6' k '?6'N"%N%",?%71B',%D+1,'?6'1,'6,10#?'7',+#'
B?,?S1,?%7)V'

' *%>,'6'D#"#1/,?=#B&'#b>?'?7\$'1H=#"6#B1D',%'/%BB14%"1,#'17H'/%%N#"1,#'
"#S1"H?7\$'H?6/%=#"&' ',+?7\$6',+1,'1H=#"6#B1D'-%,#7'H%'7%,'+1=#'?'7',+##'"KC 3',%H%)''

' 3 7H' 5 >/+'B?,?S1,?%7'#76>#H)''

' 1 -'/%>"6#8',+#7'Z16'7%D]'B1D'D#"#6N#/?1BB&'/%7/#"7#H'14%>,'+%D',%1=%?H'
H?6/B%6?7\$'1,%"7#&P/B?7,'%""%,+##"N"?=B#\$#H'?7-%" 5 1,?%7',+1,'?6'? 5 5>7#'-"% 5 'H?6/B%6>#"#'
D+?/+8'?'-?'71H=#",#7,B&'H?6/B%6#H8'/%>BH'4#'#6N#/?1BB&'H1 5 1\$?7\$)'m6?7\$'6#1"/+#6',% ',&',%'
?H#7,?-&'N"?=B#\$#H'H% /> 5 #7,68'"1,+##',+17'B%0?7\$'1,'#=#"&'H% /> 5 #7,8'?7/"#16#H',+##'
/+17/#6%- '6>/+'?71H=#",#7,'H?6/B%6>"#)''

' 3 7H'B?,?S1,?%7'#76>#H)'' '++I%+O!'PA*D<;%'D)>5+. I%=> *%7F;+)DA7+%QA(+I%=>*I%;<@'AGK'
;<9'Zm[K* 'QH'; @g]Z+%BH?7\$'N"?=B#\$#D1?=#H'-%""?'71H=#",#7,B&'N"%H>/#H'H% /> 5 #7,6'
4#/1>6#"#16%714B#'#--%" ,6',%1=%?H'H?6/B%6>"#7%, '# 5 NB%&#H])''

' J 1D'+1=?7\$'?71H=#",#7,B&'H?6/B%6#H'N"?=B#\$#H'H% /> 5 #7,6'6%>\$+, '%'+1=#'
,+# 5 ""#,>"7#H'17H">B#H'?71H 5 ?66?4B#)'' J 1D&#"6'%7',+##%,+##"6?H#',"

1 000
"

AGC

' 1 -'/%>"6#8',#/+7%B%\$&'/%7,?7>#H',% '#=%B=#'17H'H?--#"#7,'L[\ '=#7H%"68'D?,+'

(
"

4&'NB1?7,?--)'O+#' *%>', #5N+16?T#H',+1,'pH?6/%=#' &'+16',%'7%, '%7B&'4#''#B#=17,8'4>,'
qN"%N%",?%71Bq!,%'+#7##H6'-',+#'/16#8'?7/B>H?7\$'q,+#'?5N%",17/#%-',+#'?66>#6'1,'6,10#'?7'
,+#'1/,?%7)))'17H'D+#,+#'',+#'4>"H#7'%"#MN#76#'-',+#'N"%N%6#H'H?6/%=#' &'>,D#?'+6'?,'6'
B?O#B&'4#7#-?,)qp'';@;;;'WJ'cgcF<f'r:'Zm)[]K)*'C)K)\BB)';@;;;])'O+#' *%>', 'D#7,'%7',%'
6,1,#',+1,'piNj"%N%",?%71B?,&8'B?0#',+#''/%7/#N,68''#b>?'#6'1'/%55%7'6#76#17H'
#MN#''#7,?1B'166#665#7,)p''\H)

: 8 F F 80k2\$07\$&=k1L8*;)(80kO8\$70K)&S ;''%''0)\$&3)&

,

*"
"