

NORTHWESTERN UNIVERSITY  
PROJECT NAME \_\_\_\_\_  
JOB # \_\_\_\_\_

FOR: \_\_\_\_\_  
ISSUED: 02/01/2021

- B# F/\$7%2: S6: 7'2 / . , \$%2' / ( \* % (+ 7%' (2, (% (4, 7% (6%-\* ' ( 23, 1/--/&' ( ) 1/\$7%2:
- 1# PDF , -, 42\$/ ('4 1'-, # U(-, \*\* '(+'4%2, + /23, \$&'\*, 5 %\*\* , 7 :-, , %43 7% (6%- '(2/ % 4/ 7 . / \*'2, , -, 42\$/ ('4%-8 '(+, F, + 1'-, # S6: 7'2 / ( +)'2%- 7, +'% %44, .2%:-, 2/ 23, O&( , \$#
- %# N%7 , , %43 '(+, F, + +/467 , (2 1'-, '( 4/ 7 . / \*'2, , -, 42\$/ ('4 '(+, F &'23 % . .-'4%:-, '2, 7 (%7 , # 1(4-6+, % 4/ 7 . -, 2, , -, 42\$/ ('4%-8-'(>, + / . , \$%2' / ( % (+ 7%' (2, (% (4, + '\$, 42/\$8# :# E(%:-, '( \* , \$2, + \$, 0', &, \$ 4/ 7 7 , (2\* / ( +\$%12 \*6: 7 '22%-\*#
- C# I('2%- M% (6%- S6: 7'22%:- S6: 7'2 +\$%12 4/ .8 /1 , %43 7% (6%- %2 - , %\*2 30 +%8\* : , 1/\$, 4/ 7 7 , (4' ( ) +, 7 / ( \*2\$%2' / ( % (+ 2\$%' (' ) # A\$43'2, 42 Dand Commissioning AuthorityE &'-- 4/ 7 7 , (2 / ( &3, 23, \$ ) , ( , \$%- \*4/ . , % (+ 4/ (2, (2 /1 7% (6%- %\$, %44, .2%:-, #
- D# F( %- M% (6%- S6: 7'22%:- S6: 7'2 , %43 7% (6%- '( 1' ( %- 1/\$ \$ . \$' / \$ 2/ \$, 96, \*2' ( ) '( \* . , 42' / ( 1/\$ S6: \*2% (2' %- C/ 7 . -, 2' / ( % (+ %2 - , %\*2 1< +%8\* : , 1/\$, 4/ 7 7 , (4' ( ) +, 7 / ( \*2\$%2' / ( % (+ 2\$%' (' ) # A\$43'2, 42 Dand Commissioning AuthorityE &'-- \$, 26\$ ( 4/ .8 &'23 4/ 7 7 , (2\*#
- 1# C/\$\$, 42 /\$ \$, 0'\*, , %43 7% (6%- 2/ 4/ 7 .-8 &'23 A\$43'2, 42\* Dand Commissioning Authority'sE 4/ 7 7 , (2\*# S6: 7'2 4/ .', \* /1, %43 4/\$\$, 42, + 7% (6%- &'23' ( 1< +%8\* /1 \$, 4, '.2 /1 A\$43'2, 42\* Dand Commissioning Authority'sE 4/ 7 7 , (2\* % (+ . \$' / \$ 2/ 4/ 7 7 , (4' ( ) +, 7 / ( \*2\$%2' / ( % (+ 2\$%' (' ) #

## PART 2 - PRODUCTS

### 2#1 OPERATION AND MAINTENANCE DOCUMENTATION DIRECTORY

- A# D'\$, 42/\$8: P\$, .%\$, % \*' ( )-, 5 4/ 7 . \$, 3, (\*'0, + '\$, 42/\$8 /1 , 7, \$), (485 / . , \$%2' / (5% (+ 7%' (2, (% (4, +%2% % (+ 7%2, \$'%-\*5-'\*2' ( ) '2, 7 \* % (+ 23, '\$- /4%2' / ( 2/ 1%4'-'2%2, \$, +%8%44, \*\* 2/ +, \*'\$, + '(1/\$7%2' / ( # I(4-6+, % \* , 42' / ( + \*73, , 2A\$8 I4+ 7U

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- 1# T8. , /1 , 7 , \$) , (48#
- 2# E7 , \$) , (48 ' (\*2\$642' / (\*#
- 3# E7 , \$) , (48 . \$/4 , +6\$ , \*#

B# T8. , /1 E7 , \$) , (48: W3 , \$ , % . . -'4% :- , 1/\$ , %43 28. , /1 , 7 , \$) , (48 '(+4%2 , + : , - / & 5 '(4-6+ , ' (\*2\$642' / (\* % (+ . \$/4 , +6\$ , \* 1/\$ , %43 \*8\*2 , 75 \*6: \*8\*2 , 75 . ' , 4 , /1 , 96' . 7 , (25 % (+ 4/7 . / ( , (2:

- 1# F' \$ , #
- 2# F- / / + #
- 3# ! % \* - , % > #
- ;# W%2 , \$ - , % > #
- <# P / & , \$ 1% ' - 6\$ , #
- 1# W%2 , \$ / 62% ) , #
- 7# S8\*2 , 75 \*6: \*8\*2 , 75 / \$ , 96' . 7 , (2 1% ' - 6\$ , #
- 8# C3 , 7 '4% - \$ , - , % \* , / \$ \* . ' - #

C# E7 , \$) , (48 I (\*2\$642' / (\*: D , \*4\$ : , % (+ , F . - % ' ( & % \$ ' ( ) \*5 2\$ / 6 :- , ' (+4%2' / (\*5 , \$\$ / \$ 7 , \*\*%) , \*5 % (+ \*'7 ' % \$ 4 / + , \* % (+ \*'1) (%- \* # 1(4-6+ , \$ , \* . / (\*'1: '1'2' , \* / 1 O & ( , \$ \* / . , \$ %2' ( ) . , \$ \* / ( ( , - 1 / \$ ( / 2'1'4%2' / ( / 1 I (\*2% - , \$ 5 \* 6 . . ' , \$ 5 % (+ 7 % (61%426\$ , \$ 2 / 7 % ' (2% ' ( & % \$ \$ % (2' , \* #

D# E7 , \$) , (48 P \$ / 4 , +6\$ , \*: I(4-6+ , 23 , 1 / - / & ' ( ) 5 % \* % . . -'4% :- , :

- 1# I (\*2\$642' / (\* / ( \*2 / . . ' ( ) #
- 2# S362+ / & ( ' (\*2\$642' / (\* 1/\$ , %43 28. , /1 , 7 , \$) , (48#
- 3# O . , \$ %2' ( ) ' (\*2\$642' / (\* 1/\$ 4 / (+2' / (\* / 62\* ' + , ( / \$ 7 % - / . , \$ %2' ( ) - '7 '2\* #
- ;# R , 96' \$ , + \* , 96 , (4 , \* 1/\$ , - , 42\$ '4 / \$ , - , 42\$ / ('4 \*8\*2 , 7 \* #
- <# S . , 4' % - / . , \$ %2' ( ) ' (\*2\$642' / (\* % (+ . \$/4 , +6\$ , \* #

2# ; OPERATION MANUA "S

A# C / (2 , (2: I( % + + '2' / ( 2 / \$ , 96' \$ , 7 , (2\* ' ( 23\* S , 42' / (5 '(4-6+ , / . , \$ %2' / ( + %2% \$ , 96' \$ , + ' ( ' (+0' +6% - S . , 4'1'4%2' / ( S , 42' / (\* % (+ 23 , 1 / - / & ' ( ) ' (1 / \$ 7 %2' / ( :

- 1# S8\*2 , 75 \*6: \*8\*2 , 75 % (+ , 96' . 7 , (2 + , \*4\$ . 2' / (\*# U \* , + , \*'1) (%2' / (\* 1/\$ \*8\*2 , 7 \* % (+ , 96' . 7 , (2 '(+4%2 , + / ( C / (2\$%42 D / 467 , (2\* #
- 2# P , \$ 1 / \$ 7 % (4 , % (+ + , \*'1) (4\$2 , \$ % '1 C / (2\$%42 / 3% \* + , - , ) %2 , + + , \*'1) ( \$ , \* . / (\*'1: ' - 28#
- 3# O . , \$ %2' ( ) \*2% (+ % \$ + \* #
- ;# O . , \$ %2' ( ) . \$ / 4 , +6\$ , \* #
- <# O . , \$ %2' ( ) - / ) \* #
- 1# W \$ ' ( ) + ' % ) \$ % 7 \* #
- 7# C / (2\$ / - + ' % ) \$ % 7 \* #
- 8# P' . , + \*8\*2 , 7 + ' % ) \$ % 7 \* #
- ?# P \$ , 4%62' / (\* % ) % ' (\*2 ' 7 . \$ / . , \$ 6 \* , #
- 10# " '4 , ( \* , \$ , 96' \$ , 7 , (2\* '(4-6+ ' ( ) ' (\* . , 42' / ( % (+ \$ , ( , & % - + %2 , \* #

B# D , \*4\$ . 2' / (\*: I(4-6+ , 23 , 1 / - / & ' ( ) :

- 1# P \$ / +642 (%7 , % (+ 7 / + , - (67 : , \$ # U \* , + , \*'1) (%2' / (\* 1/\$ . \$ / +642\* '(+4%2 , + / ( C / (2\$%42 D / 467 , (2\* #
- 2# M % (61%426\$ , \$ \* (%7 , #
- 3# E96' . 7 , (2 '+ , (2'1'4%2' / ( & '23 \* , \$ % - (67 : , \$ / 1 , %43 4 / 7 . / ( , (2#
- ;# E96' . 7 , (2 16 (42' / ( #
- <# O . , \$ %2' ( ) 43% \$ %42 , \$ ' \*2'4\* #





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2# M%'(2, (%(4, %(+ S,\$0'4, R,4/\$+: I(4-6+, 7%(6'426\$, \$\*0 1/\$7 \* 1/\$ \$,4/\$+')( 7%'(2, (%(4, #

F# S. %\$, P%\$2\* "'\*2 % (+ S/6\$4, I(1/\$7%2'/( : I(4-6+, -'2\* /1 \$, .-%4, 7, (2 % (+ \$, .%'\$ .%\$2\*5 &'23 .%\$2\* '+, (2'1', + % (+ 4\$/\* \* \$, 1, \$, (4, + 2/ 7%(6'426\$, \$\*0 7%'(2, (%(4, +/467, (2%2'/( (%(+ -/4%-\*/6\$4, \* /1 7%'(2, (%(4, 7%2, \$%-\* % (+ \$, -%2, + \*, \$0'4, \*#

!# M%'(2, (%(4, S,\$0'4, C/(2\$%42\*: I(4-6+, 4/.' , \* /1 7%'(2, (%(4, %) \$, , 7, (2\* &'23 (%7, % (+ 2, -, .3/(, (67 : , \$ /1 \* , \$0'4, %), (2#

H# W%\$\$% (2', \* % (+ B/ (+\*: I(4-6+, 4/.' , \* /1 &\$\$% (2', \* % (+ : / (+ \* % (+ -'2\* /1 4'467 \*2%(4, \* % (+ 4/ (+2'/( \* 23%2 &/6+ %11, 42 0%-'+28 /1 &\$\$% (2', \* /\$ : / (+\*#

1# I(4-6+, .\$/4, +6\$, \* 2/ 1/--/ & % (+ \$, 96'\$, + (/2'1'4%2'/( \* 1/\$ &\$\$% (28 4-%'7 \*#

PART 3 - EKECUTION

3#1 MANUA" PREPARATION

A# O. , \$%2'/( (%(+ M%'(2, (%(4, D/467, (2%2'/( D'\$, 42/\$8: P\$, .%\$, % \* , .%\$%2, 7%(6%-23%2 .\$/0'+, \* % ( /\$) % ('C, + \$, 1, \$, (4, 2/ , 7, \$), (485 / . , \$%2'/( 5 % (+ 7%'(2, (%(4, 7%(6%-\*#

B# E 7, \$), (48 M%(6%-: A\*\* , 7 :-, % 4/7 .-, 2, \* , 2 /1 , 7, \$), (48 '(1/\$7%2'/( '(+'4%2'() .\$/4, +6\$, \* 1/\$ 6\* , :8 , 7, \$), (48 . , \$\* / ((, - % (+ :8 O& (, \$\* / . , \$%2'() . , \$\* / ((, - 1/\$ 28. , \* /1 , 7, \$), (4', \* '(+'4%2, +#

C# P\$/+642 M%'(2, (%(4, M%(6%-: A\*\* , 7 :-, % 4/7 .-, 2, \* , 2 /1 7%'(2, (%(4, +%2%' ('+'4%2'() 4%\$, % (+ 7%'(2, (%(4, /1 , %43 .\$/+6425 7%2, \$%-5 % (+ 1('3 '(4/\$. /\$%2, + '(2/ 23, W/\$>#

D# O. , \$%2'/( (%(+ M%'(2, (%(4, M%(6%-: A\*\* , 7 :-, % 4/7 .-, 2, \* , 2 /1 / . , \$%2'/( (%(+ 7%'(2, (%(4, +%2%' ('+'4%2'() / . , \$%2'/( (%(+ 7%'(2, (%(4, /1 , %43 \*8\*2, 75 \*6: \*8\*2, 75 % (+ .', 4, /1 (\*

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1# D/ (/2 6\*, /\$)'(%- .\$/A, 42 \$, 4/\$+ +/467, (2\* %\* .%\$2 /1 /., \$%2'/( %(+ 7%'(2, (%(4, 7%(6%-\*#

2# C/7 .-8 &'23 \$, 96'\$, 7, (2\* /1 (, &-8 .\$. , .%\$, +\$, 4/\$+ D\$%&'()\* '( S, 42'/( 01783? =P\$/A, 42 R, 4/\$+ D/467, (2\*#=#

!# C/7 .-8 &'23 S, 42'/( 017700 =C-/\*, /62 P\$/4, +6\$, \*= 1/\$ \*43, +6-, 1/\$ \*6: 7'22'() /., \$%2'/( %(+ 7%'(2, (%(4, +/467, (2%2'/(#

END OF SECTION 01 7823