

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/\$7 . \$'/\$ 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 , \$ / 6 2 %) , #
- 7 # S 8 * 2 , 7 5 * 6 : * 8 * 2 , 7 5 / \$, 9 6 ' . 7 , (2 1 % ' - 6 \$, #
- 8 # C 3 , 7 ' 4 % - \$, - , % * , / \$ * . ' - #

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

D# E7 , \$) , (48 P \$ / 4 , + 6 \$, * : I (4 - 6 + , 2 3 , 1 / - - / & ' () 5 % * % . . - ' 4 % :- , :

- 1# I (* 2 \$ 6 4 2 ' / (* / (* 2 / . . ' () #
- 2# S 3 6 2 + / & (' (* 2 \$ 6 4 2 ' / (* 1 / \$, % 4 3 2 8 . , / 1 , 7 , \$) , (4 8 #
- 3# O . , \$ % 2 ' () ' (* 2 \$ 6 4 2 ' / (* 1 / \$ 4 / (+ 2 ' / (* / 6 2 * ' + , (/ \$ 7 % - / . , \$ % 2 ' () - ' 7 ' 2 * #
- ; # R , 9 6 ' \$, + * , 9 6 , (4 , * 1 / \$, - , 4 2 \$ ' 4 / \$, - , 4 2 \$ / (' 4 * 8 * 2 , 7 * #
- < # S . , 4 ' % - / . , \$ % 2 ' () ' (* 2 \$ 6 4 2 ' / (* % (+ . \$ / 4 , + 6 \$, * #

2# ; OPERATION MANUA " S

A# C / (2 , (2 : I (% + + ' 2 ' / (2 / \$, 9 6 ' \$, 7 , (2 * ' (2 3 * S , 4 2 ' / (5 ' (4 - 6 + , / . , \$ % 2 ' / (+ % 2 % \$, 9 6 ' \$, + ' (' (+ ' 0 ' + 6 % - S . , 4 ' 1 ' 4 % 2 ' / (S , 4 2 ' / (* % (+ 2 3 , 1 / - - / & ' () ' (1 / \$ 7 % 2 ' / (:

- 1# S 8 * 2 , 7 5 * 6 : * 8 * 2 , 7 5 % (+ , 9 6 ' . 7 , (2 + , * 4 \$ ' . 2 ' / (* # U * , + , * 1) (% 2 ' / (* 1 / \$ * 8 * 2 , 7 * % (+ , 9 6 ' . 7 , (2 ' (+ ' 4 % 2 , + / (C / (2 \$ % 4 2 D / 4 6 7 , (2 * #
- 2# P , \$ 1 / \$ 7 % (4 , % (+ + , * 1) (4 \$ ' 2 , \$ ' % ' 1 C / (2 \$ % 4 2 / 3 % * + , - ,) % 2 , + + , * 1) (\$, * . / (* ' : ' - 2 8 #
- 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 % 6 2 ' / (* %) % ' (* 2 ' 7 . \$ / . , \$ 6 * , #
- 1 0 # " ' 4 , (* , \$, 9 6 ' \$, 7 , (2 * ' (4 - 6 + ' () ' (* . , 4 2 ' / (% (+ \$, (, & % - + % 2 , * #

B# D , * 4 \$ ' . 2 ' / (* : I (4 - 6 + , 2 3 , 1 / - - / & ' () :

- 1# P \$ / + 6 4 2 (% 7 , % (+ 7 / + , - (6 7 : , \$ # U * , + , * 1) (% 2 ' / (* 1 / \$. \$ / + 6 4 2 * ' (+ ' 4 % 2 , + / (C / (2 \$ % 4 2 D / 4 6 7 , (2 * #
- 2# M % (6 1 % 4 2 6 \$, \$ * (% 7 , #
- 3# E 9 6 ' . 7 , (2 ' + , (2 ' 1 ' 4 % 2 ' / (& ' 2 3 * , \$ ' % - (6 7 : , \$ / 1 , % 4 3 4 / 7 . / (, (2 #
- ; # E 9 6 ' . 7 , (2 1 6 (4 2 ' / (#
- < # O . , \$ % 2 ' () 4 3 % \$ % 4 2 , \$ ' * 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