

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 , \$ / 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 % (+ * 1' 7 % \$ 4 / + , * % (+ * 1) (% - * # 1(4-6+ , \$, * . / (* : ' : ' 2' , * / 1 O & (, \$ * / . , \$ % 2' () . , \$ * / ((, - 1 / \$ (/ 2 ' 1' 4 % 2' / (/ 1 1 (* 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) (\$, * . / (* : ' - 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%(6'1%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%(6'1%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# E7, \$), (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