


R-231867

REV	CHANGE
0	INITIAL ISSUE
1	INC. DCH 0A
2	INC. DCH 1A
3	INC. DCH 2A
4	INC. DCH 3A
5	INC. DCH 4A
6	INC. DCH 5A, 5B

Security-Related Information Figure
Withheld Under 10 CFR 2.390.

<small>UNLESS OTHERWISE STATED DIMENSIONS AND TOLERANCES SHALL BE PER ASME Y14.5M-10</small>			NAC INTERNATIONAL		
<small>ALL DIMENSIONS UNLESS OTHERWISE SPECIFIED ARE TO BE CONSIDERED AS A MAX. DEPTH OF POINTS MEASUREMENT</small>	<small>GROUP</small>	<small>NAME</small>	<small>DATE</small>	LOADED VERTICAL CONCRETE CASK (VCC) CY-MPC	
	DESIGNER	<i>[Signature]</i>	3-17-16		
	DRAWN	<i>[Signature]</i>	3-17-16		
	CHECKED	<i>[Signature]</i>	3-17-16		
	APPROVED	<i>[Signature]</i>	3-18-16		
<small>ALL DIMENSIONS ARE IN INCHES DIMENSIONED SURFACES TO BE 0.005 INCHES</small>	<small>LEGEND</small>	<i>[Signature]</i>	3-15-16		
<small>NEXT ASSEMBLY</small>	<small>REVISION</small>	<i>[Signature]</i>	3-15-16		
<small>DRAWING TYPE: LICENSE</small>	<small>SHEET</small>	<i>[Signature]</i>	3-15-16		
<small>PROJECT</small> 414				<small>DRAWING</small> 862	<small>SHEET</small> 6
				<small>REV</small> 1 of 2	

Security-Related Information Figure
Withheld Under 10 CFR 2.390.

 NAC INTERNATIONAL	
LOADED VERTICAL CONCRETE CASK (VCC) CY-MPC	
PROJECT 414	DESIGN 862
	REV 6

REV	CHANGE
0	INITIAL ISSUE
1	INC DCR 0A,0B
2	INC DCR 1A,1B
3	INC DCR 2A
4	INC DCR 3A,3B,3C,3D,3E
5	INC DCR 4A
6	INC DCR 5A

20. ASTM A615/A615M, GR 60 (GR420)

19. FIELD REPAIR OF DAMAGED SCREEN ATTACHMENT NUTS (ITEM 26, DRAWING 414-861) MAY BE FACILITATED BY REPLACING THE DAMAGED NUT(S) WITH: A 3/8" STAINLESS STEEL DROP-IN ANCHOR, 3/8" STAINLESS STEEL SCREEN BOLT AND A SIZED STAINLESS STEEL WASHER TO COVER THE ASSOCIATED SCREEN HOLE OR WITH A 5/8" STAINLESS STEEL DROP-IN ANCHOR (ITEM 31) USED WITH EXISTING HARDWARE. THE SCREEN BOLT (ITEM 19) AND FLAT WASHER (ITEM 23) WILL NOT BE USED. FOR REPLACED NUT(S) ON VCC CHAMFER, MODIFY SCREEN (ASSEMBLY 97, 98 OR ITEM 30) WITH MATED SCREEN HOLE ON THE VERTICAL FACE OF THE STAINLESS STEEL SCREEN FRAME OR ITEM 29, RETAINER PLATE.

18. ITEMS 26, 27, AND 28 ARE APPLICABLE FOR ALTERNATE HOLE LOCATIONS ON ASSEMBLY 98 OUTLET SCREEN ALTERNATE CONFIGURATION.

17. (DELETED)

16. ITEM 16 INSTALLS ON CASK SIDE OF FRAME.

15. ITEM 23 (FLAT WASHERS) MAY BE SUBSTITUTED WITH 5/8 I.D. STAINLESS STEEL BEVEL WASHERS TO OBTAIN BEARING.

14. SLOPE CONCRETE DOWNWARD FROM EDGE OF TOP FLANGE OF ITEM 13, "LINER WELDMENT" TO THE CHAMFER USING GOOD CONSTRUCTION PRACTICES WHILE MAINTAINING THE MINIMUM CONCRETE COVER.

13. LOCATION OF HORIZONTAL REINFORCEMENT CAN BE REVERSED WITH THE VERTICAL REINFORCEMENT, BOTH INSIDE AND OUTSIDE CURTAIN.

12. 1 1/2-6 UNC LIFTING HOLES IN TOP FLANGE OF ITEM 13 (LINER WELDMENT) TO BE GROUTED AFTER FINAL CONCRETE PLACEMENT.

11. FOR ASSY'S -97 AND -98, ITEM 17 MAY BE REPLACED BY A SINGLE PIECE PLATE.

10. COAT ALL EXPOSED CONCRETE SURFACES WITH AN APPROVED SEALER.

9. TO BE INSTALLED PER MANUFACTURERS INSTRUCTIONS.

8. INSTALL PLUGS INTO SCREEN ATTACHMENT POINTS PRIOR TO FORMING.

7. SEGMENTED HOOPS MAY BE USED IN LIEU OF WHOLE HOOPS.

6. CONCRETE SHALL DEVELOP A MINIMUM COMPRESSIVE STRENGTH (F_c') OF 4000 PSI AT 28 DAYS USING TYPE 2 PORTLAND CEMENT, 1 1/2 IN. MAXIMUM SIZE AGGREGATE. CONCRETE DENSITY SHALL BE 140 PCF MINIMUM.

5. ALL REBAR OVERLAPS TO BE 33 INCHES MINIMUM. REBAR OVERLAPS IN ADJACENT HOOPS SHALL NOT BE VERTICALLY ALIGNED.

4. A MINIMUM OF 3 IN. CONCRETE COVER SHALL BE MAINTAINED FOR REINFORCEMENT AT THE EXTERIOR CONCRETE SURFACES AND 2 IN. CONCRETE COVER BETWEEN THE CASK LINER AND THE REINFORCEMENT. A 3/4 MINIMUM CONCRETE COVER BETWEEN THE OTHER NON-EXPOSED SURFACES AND THE REINFORCEMENT UNLESS OTHERWISE NOTED, IN ACCORDANCE WITH THE TOLERANCES AS ALLOWED BY ACI 117-90.

3. ALL BENDING OF REBARS SHALL BE PERFORMED COLD, ALL HOOKS ARE STANDARD UNLESS OTHERWISE DETAILED.

2. REINFORCEMENT BARS MAY BE FIELD CUT, BENT AND PLACED OR TIED FOR CLEARANCE AS APPROVED BY THE ENGINEER.

1. REINFORCEMENT FABRICATION SHALL COMPLY WITH ACI 318/318R AND 349/349R STANDARDS. STANDARD REINFORCEMENT PLACEMENT SHALL BE IN ACCORDANCE WITH ACI 117-90 TOLERANCES.


NOTES:

- 27. LIFT ANCHOR SHALL BE SUBJECTED AS AN ASSEMBLY TO A PROOF LOAD TEST AND POST TEST NDE.
- 26. TOP OF HOLES IN LIFT ANCHORS SHALL BE LEVEL TO EACH OTHER WITHIN 1/8 INCH.
- 25. CUT AS NECESSARY FOR ACCESS TO INTERIOR OF REBAR CAGE AND TO AVOID INTERFERENCE WITH LIFT ANCHOR OR VENTS.
- 24. PREPARE ALL SURFACES THAT WILL REMAIN EXPOSED AFTER FINAL CONCRETE PLACEMENT IN ACCORDANCE WITH SSPC-SP1. NEAR-WHITE BLAST CLEAN PER SSPC-SP10. APPLY AMERLOCK 400GF (ANSI 70 GRAY) TO ALL PREPARED SURFACES. WRAP COATING OVER ALL EDGES TO ENSURE COMPLETE COVERAGE. APPLY ALL COATINGS PER MANUFACTURER'S APPLICATION INSTRUCTION. OTHER COATINGS MAY BE USED IF APPROVED BY NAC.
- 23. SITE SPECIFIC CONFIGURATION FOR WASTE CONTROL SPECIALISTS (WCS).
- 22. SEAL WELD OPEN SEAMS.
- 21. HOLES IN ITEMS 29 AND 30 MAY BE FIELD MODIFIED TO ALLOW FOR PROPER FIT UP.

NOTE: Regulatory Approval Pending

6	23	1				36	REBAR	CARBON STEEL	ASTM A615/A615M, GR. 60		#6 (19)
		2				35	LIFT ANCHOR			414-866-95	
6	1					34	SPACER	CARBON STEEL	ASTM A537, CL 2		PLATE
	1					33	BASE PLATE	CARBON STEEL	ASTM A537, CL 2		PLATE
	2					32	LIFTING LUG	CARBON STEEL	ASTM A537, CL 2		PLATE
9	A/R			A/R	31	CONCRETE ANCHOR	ST. STL.	COML			HILTI HDI (SS303) 5/8
	4			4	30	SCREEN	ST. STL.	COML			4 X 4 MILLING GRADE WIRE CLOTH
	8			8	29	RETAINER PLATE	ST. STL.	COML			SHEET
	A/R			A/R	28	WASHER	ST. STL.	COML			3/8 I.D.
18	A/R			A/R	27	SCREEN BOLT	ST. STL.	COML			3/8-16 UNC X 1/2 LG. HEX HEAD BOLT
	A/R			A/R	26	CONCRETE ANCHOR	ST. STL.	COML			HILTI HDI (SS303) 3/8
	A/R			A/R	25	SEALER	PAINT/SEALER	COML			CONCRETE SEALER
	4			4	24	LAG SCREW	ST. STL.	COML			MCMMASTER-CARR #92351A542
15	24			24	23	FLAT WASHER	ST. STL.	COML			5/8 DIA TYPE B SERIES W
	4			4	22	CONCRETE ANCHOR	ZINC-ALLOY	COML			MCMMASTER-CARR #97040A029
9	4			4	21	OUTLET SCREEN				414-866-98	
6	4			4	20	INLET SCREEN				414-866-97	
	24			24	19	SCREEN BOLT	ST. STL.	COML			5/8-11 UNC-2A X 1.0 LG HEX BOLT
6	1			1	18	NAME PLATE				414-866-1	
	A/R	A/R		17	STRIP		304 ST. STL.	ASTM A240			18 GA. SHEET
	A/R	A/R		16	SCREEN		304 ST. STL.	COML			4 X 4 MILLING GRADE WIRE CLOTH
	A/R			A/R	15	CONCRETE SHELL	CONCRETE	COML			TYPE 2 PORTLAND CEMENT
6	4			4	14	VENT WELDMENT				414-861-97	
	1			1	13	LINER WELDMENT				414-861-99	
	1			1	12	BASE WELDMENT				414-861-98	
	4			4	11	REBAR	CARBON STEEL	SEE NOTE 20			#6 (19)
	4			4	10	REBAR	CARBON STEEL	SEE NOTE 20			#6 (19)
				1	9	REBAR	CARBON STEEL	SEE NOTE 20			#6 (19)
	40			40	8	REBAR	CARBON STEEL	SEE NOTE 20			#6 (19)
	20			20	7	REBAR	CARBON STEEL	SEE NOTE 20			#6 (19)
	12			12	6	REBAR	CARBON STEEL	SEE NOTE 20			#6 (19)
	8			8	5	REBAR	CARBON STEEL	SEE NOTE 20			#6 (19)
	28			28	4	REBAR	CARBON STEEL	SEE NOTE 20			#6 (19)
	20			20	3	REBAR	CARBON STEEL	SEE NOTE 20			#6 (19)
	16			16	2	REBAR	CARBON STEEL	SEE NOTE 20			#6 (19)
	8			8	1	REBAR	CARBON STEEL	SEE NOTE 20			#6 (19)
95	96	97	98	99	ITEM	NAME	MATERIAL	SPEC	DRAWING No.	DESCRIPTION	
ASSY	ASSY	ASSY	ASSY	ASSY	QUANTITY						


UNLESS OTHERWISE STATED			
DIMENSIONING AND TOLERANCING SHALL BE PER ASME Y14.5M-94			
ALL THREAD DEPTH CALLOUTS ARE TO BE CONSIDERED AS A MIN. DEPTH OF PERFECT THREADS.			
ALL DIMENSIONS ARE IN INCHES			
MACHINED SURFACES TO BE 7 OR BETTER			
NEXT ASSEMBLY: 414-862			
DRAWING TYPE: LICENSE			
GROUP	NAME	DATE	
PREPARED	V. H. H. H. H.	3-18-16	
CHECKED	J. J. J. J. J.	3-18-16	
PROJECT MANAGER	J. J. J. J. J.	3-25-16	
ENGINEERING	J. J. J. J. J.	3-18-16	
ISSUING	J. J. J. J. J.	3-25-16	
QUALITY	R. W. B. B. B.	4-13-16	




REINFORCING BAR AND CONCRETE PLACEMENT, VERTICAL CONCRETE CASK (VCC) CY-MPC

PROJECT	414	DRAWING	866	REV	6
SH	1	OF	7	3:30 PM 03-16-2016	


Security-Related Information Figure
Withheld Under 10 CFR 2.390.

 NAC INTERNATIONAL		
REINFORCING BAR AND CONCRETE PLACEMENT, VERTICAL CONCRETE CASK (VCC) CY-MPC		
PROJECT	414	866
		1 5
		2 7 1 2 5
		1 (5)


Security-Related Information Figure
Withheld Under 10 CFR 2.390.

 NAC INTERNATIONAL	
REINFORCING BAR AND CONCRETE PLACEMENT, VERTICAL CONCRETE CASK (VCC) CY-MPC	
PROJECT 414	DRAWING 866
	REV 6
	REV 7
	REV 8


Security-Related Information Figure
Withheld Under 10 CFR 2.390.

 NAC INTERNATIONAL		
REINFORCING BAR AND CONCRETE PLACEMENT, VERTICAL CONCRETE CASK (VCC) CY-MPC		
PROJECT	414	DESIGN
	866	REV 5
	REV 4	REV 7


Security-Related Information Figure
Withheld Under 10 CFR 2.390.

 NAC INTERNATIONAL		
REINFORCING BAR AND CONCRETE PLACEMENT, VERTICAL CONCRETE CASK (VCC) CY-MPC		
PROJECT	414	REV 6
	866	5
	5	7
		6

Security-Related Information Figure
Withheld Under 10 CFR 2.390.

 NAC INTERNATIONAL			
REINFORCING BAR AND CONCRETE PLACEMENT, VERTICAL CONCRETE CASK (VCC) CY-MPC			
PROJECT	414	REVISION	866
		BY	6
		DATE	11-10-06

Security-Related Information Figure
Withheld Under 10 CFR 2.390.

 NAC INTERNATIONAL	
REINFORCING BAR AND CONCRETE PLACEMENT, VERTICAL CONCRETE CASK (VCC) CY-MPC	
PROJECT 414	DRAWING 866
REV 8	
BY 7 7 12-12-00	


R-231869

REV	CHANGE
0	INITIAL ISSUE
1	INC DCR DA
2	INC DCR 1A
3	INC DCR 75.2B.2C
4	INC DCR 3A
5	INC DCR 4A
6	INC DCR 2A.5B
7	INC DCR 6A
8	INC DCR 7A
9	INC DCR 8A.8B

Security-Related Information Figure
Withheld Under 10 CFR 2.390.

ASBY	ASBY	ASBY				NIAC INTERNATIONAL	
QMS/STY						LOADED VERTICAL CONCRETE CASK (VCC) MPC-YANKEE	
UNLESS OTHERWISE STATED DIMENSIONS AND EXTENSIONS SHALL BE PER ASME Y14.5-2009			GROUP	NAME	DATE		
ALL DIMENSIONS UNLESS OTHERWISE NOTED SHALL BE IN INCHES			DESIGNED BY	<i>[Signature]</i>	3-18-16		
			CHECKED BY	<i>[Signature]</i>	3-18-16		
			APPROVED BY	<i>[Signature]</i>	3-18-16		
UNLESS OTHERWISE STATED DIMENSIONS AND EXTENSIONS SHALL BE PER ASME Y14.5-2009			DESIGNED BY	<i>[Signature]</i>	3-18-16		
			CHECKED BY	<i>[Signature]</i>	3-18-16		
			APPROVED BY	<i>[Signature]</i>	3-18-16		
NEXT ASSEMBLY			N/A			PROJECT	455
DRAWING TYPE			LICENSE	<i>[Signature]</i>	3/14/16	DRAWING	862
						SH 1 OF 2	REV 9

Security-Related Information Figure
Withheld Under 10 CFR 2.390.

 NAC INTERNATIONAL			
LOADED VERTICAL CONCRETE CASK (VCC) MPC--YANKEE			
PROJECT	455	DRAWING	862
SCALE	1/4" = 1'-0"	SHEET	2 OF 2

REV	CHANGE
0	INITIAL ISSUE
1	INC DCR 0A
2	INC DCR 1A,1B
3	INC DCR 2A,2B,2C
4	INC DCR 3A,3B,3C,3D,3E
5	INC DCR 4A
6	INC DCR 5A

- 6/24 LIFT ANCHOR SHALL BE SUBJECTED AS AN ASSEMBLY TO A PROOF LOAD TEST AND POST TEST NDE.
- 6/23 TOP OF HOLES IN LIFT ANCHORS SHALL BE LEVEL TO EACH OTHER WITHIN 1/8 INCH.
- 6/22 CUT AS NECESSARY FOR ACCESS TO INTERIOR OF REBAR CAGE AND TO AVOID INTERFERENCE WITH LIFT ANCHOR OR VENTS.
- 6/21 PREPARE ALL SURFACES THAT WILL REMAIN EXPOSED AFTER FINAL CONCRETE PLACEMENT IN ACCORDANCE WITH SSPC-SP1. NEAR-WHITE BLAST CLEAN PER SSPC-SP10. APPLY AMERLOCK 400GF (ANSI 70 GRAY) TO ALL PREPARED SURFACES. WRAP COATING OVER ALL EDGES TO ENSURE COMPLETE COVERAGE. APPLY ALL COATINGS PER MANUFACTURER'S APPLICATION INSTRUCTION. OTHER COATINGS MAY BE USED IF APPROVED BY NAC.
- 6/20 SITE SPECIFIC CONFIGURATION FOR WASTE CONTROL SPECIALISTS (WCS).
- 6/19 SEAL WELD OPEN SEAMS.
- 18 THE TOP STRIP OF ASSEMBLY -98 MAY BE REDUCED TO .5. ITEMS 16 AND 17 MAY BE TRIMMED AND WELDED IN THE FIELD TO ALLOW FIT-UP.
- 17 SCREEN BOLTS UP TO 2 INCHES LONG MAY BE USED TO ENSURE FITUP.
- 16 COAT ALL EXPOSED CONCRETE SURFACES WITH AN APPROVED SEALER.
- 15 LOCATION OF HORIZONTAL REINFORCEMENT CAN BE REVERSED WITH THE VERTICAL REINFORCEMENT, BOTH INSIDE AND OUTSIDE REINFORCEMENT CURTAIN.
- 14 SLOPE CONCRETE DOWNWARD FROM EDGE OF TOP FLANGE OF ITEM 13, "LINER WELDMENT" TO THE CHAMFER USING GOOD CONSTRUCTION PRACTICES WHILE MAINTAINING THE MINIMUM CONCRETE COVER.
- 13 1 1/2-6 UNC LIFTING HOLES IN TOP FLANGE OF ITEM 13 (LINER WELDMENT) TO BE GROUTED AFTER FINAL CONCRETE PLACEMENT.
- 12 OPTIONAL, ROLL AFTER WELDING TO APPROX. 60.0 INCH RADIUS WITH ITEM 17 TOWARDS THE INSIDE (CASK SIDE OF THE FRAME).
- 11 FIELD MODIFICATION OF NON-SLOTTED HOLES (OPTIONAL ASSEMBLY -97) TO ALLOW FITUP IS ALLOWED AS LONG AS SCREENS ARE NOT DAMAGED.
- 10 FOR ASSY'S -97 AND -98, ITEMS 16 MAY BE REPLACED BY A SINGLE PIECE OF PLATE.
- 9 INSTALL PER MANUFACTURERS INSTRUCTIONS.
- 8 ATTACH EACH INLET SCREEN WITH FOUR SCREEN BOLTS, ITEM 19, AND FOUR PLAIN WASHERS, ITEM 20. ITEM 20 (PLAIN WASHERS) MAY BE SUBSTITUTED WITH 5/8 ID STAINLESS BEVEL WASHERS TO OBTAIN BEARING. A PAIR OF EACH ITEM 19 AND 20 ARE TO BE USED TO ATTACH EACH OUTLET SCREEN. CARE MUST BE TAKEN TO PROTECT SCREEN ATTACHMENT POINTS DURING CONCRETE FORMING.
- 7 DURING FABRICATION HALF HOOPS MAY BE USED IN LIEU OF WHOLE HOOPS.
- 6 CONCRETE SHALL DEVELOP A COMPRESSIVE STRENGTH (F_c') OF 4000 PSI USING TYPE 2 PORTLAND CEMENT, 1 1/2 IN. MAXIMUM SIZE AGGREGATE. CONCRETE DENSITY SHALL BE 140 PCF MINIMUM WITH 3-6% AIR ENTRAINMENT.
- 5 ALL REBAR OVERLAPS TO BE 33 INCHES MINIMUM. REBAR OVERLAPS IN ADJACENT HOOPS SHALL NOT BE VERTICALLY ALIGNED.
- 4 A MINIMUM OF 3 IN. CONCRETE COVER SHALL BE MAINTAINED FOR REINFORCEMENT AT THE EXTERIOR CONCRETE SURFACES AND 2 IN. CONCRETE COVER BETWEEN THE EXTERIOR OF THE CASK LINER AND THE REINFORCEMENT. MAINTAIN A 3/4" MINIMUM CONCRETE COVER BETWEEN ALL OTHER NON-EXPOSED SURFACES AND THE REINFORCEMENT UNLESS OTHERWISE NOTED ACCORDANCE WITH THE TOLERANCES AS ALLOWED BY ACI 117-90.
- 3 ALL BENDING OF REBARS SHALL BE PERFORMED COLD. ALL HOOKS ARE STANDARD UNLESS OTHERWISE DETAILED.
- 2 ALL REINFORCEMENT BARS MAY BE FIELD CUT, BENT AND PLACED OR TIED FOR CLEARANCE AS APPROVED BY NAC ENGINEERING.
- 1 REINFORCEMENT FABRICATION SHALL COMPLY WITH ACI 318/318R AND 349/349R STANDARDS. STANDARD REINFORCEMENT PLACEMENT SHALL BE IN ACCORDANCE WITH ACI 117-90 TOLERANCES.

NOTES:


NOTE: Regulatory Approval Pending

1	30	REBAR	CARBON STEEL	ASTM A615/A615M, GR. 60	#6 (19)
2	29	LIFT ANCHOR		455-866-95	
1	28	SPACER	CARBON STEEL	ASTM A537, CL 2	PLATE
1	27	BASE PLATE	CARBON STEEL	ASTM A537, CL 2	PLATE
2	26	LIFTING LUG	CARBON STEEL	ASTM A537, CL 2	PLATE
A/R	A/R	25	SEALER		PER NOTE 16
4	4	24	LAG BOLT	ST. STL.	COML
4	4	23	CONCRETE ANCHOR	ZINC-ALLOY	COML
4	4	22	OUTLET SCREEN		455-866-98
4	4	21	INLET SCREEN		455-866-97
24	24	20	PLAIN WASHER	ST. STL.	COML
24	24	19	SCREEN BOLT	ST. STL.	COML
1	1	18	NAME PLATE		455-856-1
	AR	AR	17	SCREEN	304 ST. STL.
	AR	AR	16	STRIP	304 ST. STL.
AR	AR	AR	15	CONCRETE SHELL	CONCRETE
4	4	14	OUTLET WELDMENT		455-861-97
1	1	13	LINER WELDMENT		455-861-99
1	1	12	BASE WELDMENT		455-861-98
4	4	11	REBAR	CARBON STEEL	ASTM A615/A615M, GR. 60
4	4	10	REBAR	CARBON STEEL	ASTM A615/A615M, GR. 60
		9	REBAR	CARBON STEEL	ASTM A615/A615M, GR. 60
34	34	8	REBAR	CARBON STEEL	ASTM A615/A615M, GR. 60
17	17	7	REBAR	CARBON STEEL	ASTM A615/A615M, GR. 60
12	12	6	REBAR	CARBON STEEL	ASTM A615/A615M, GR. 60
8	8	5	REBAR	CARBON STEEL	ASTM A615/A615M, GR. 60
28	28	4	REBAR	CARBON STEEL	ASTM A615/A615M, GR. 60
20	20	3	REBAR	CARBON STEEL	ASTM A615/A615M, GR. 60
16	16	2	REBAR	CARBON STEEL	ASTM A615/A615M, GR. 60
8	8	1	REBAR	CARBON STEEL	ASTM A615/A615M, GR. 60


QUANTITY	NAME	MATERIAL	SPEC	DRAWING No.	DESCRIPTION
95	98	97	96	99	ITEM
ASSY	ASSY	ASSY	ASSY	ASSY	
UNLESS OTHERWISE STATED					
DIMENSIONING AND TOLERANCING SHALL BE PER ASME Y14.5M-94. UNLESS OTHERWISE SPECIFIED, DIMENSIONAL TOLERANCES ARE SHOWN BELOW.					
ALL THREAD DEPTH CALLOUTS ARE TO BE CONSIDERED AS A MIN. DEPTH OF PERFECT THREADS. THE ACTUAL DEPTH OF THE THREADS IS NOT SUBJECT TO TOLERANCE CONTROLS.					
UNDER 3	±.003	WEIGHTS ARE APPROXIMATE AND ARE TO BE USED FOR HANDLING PURPOSES ONLY	GROUP	NAME	DATE
3-12	±.005	ALL DIMENSIONS ARE IN INCHES	PREPARED		3-9-16
OVER 12	±.010	BORDER SIZE: F (40 X 28)	CHECKED		3-9-16
UNDER 6	±.02	ALL UNSPECIFIED TOOL RADIUS: .015 - .030	PROJECT MANAGER		3-9-16
6-18	±.03	BREAK ALL SHARP CORNERS .015 - .030	ENGINEERING		3-9-16
OVER 18	±.06	MACHINED SURFACES TO BE BETTER	DESIGN		3-9-16
ALL	±.1	NEXT ASSEMBLY: 455-862	LICENSING		3-9-16
FRACTIONAL	±1/8	DRAWING TYPE: LICENSE	QUALITY		3-16-16
ANGLES	±0.5°				

NAC INTERNATIONALREINFORCING BAR AND
CONCRETE PLACEMENT,
VERTICAL CONCRETE CASK (VCC)
MPC-YANKEEPROJECT 455 DRAWING 866 REV 6
SCALE 1/16 WEIGHT SH 1 OF 7 3:30 PM 01-13-2016


Security-Related Information Figure
Withheld Under 10 CFR 2.390.

 NAC INTERNATIONAL	
REINFORCING BAR AND CONCRETE PLACEMENT, VERTICAL CONCRETE CASK (VCC) MPC - YANKEE	
PROJECT 455	DRAWING 866
SCALE 1/16"	DATE 2-7-88


Security-Related Information Figure
Withheld Under 10 CFR 2.390.

 NAC INTERNATIONAL	
REINFORCING BAR AND CONCRETE PLACEMENT, VERTICAL CONCRETE CASK (VCC) MPC-YANKEE	
PROJECT 455	DRAWING 866
Sheet 1/16	REV 5 BY 3 OF 7 DATE 12/15/00


Security-Related Information Figure
Withheld Under 10 CFR 2.390.

 NAC INTERNATIONAL	
REINFORCING BAR AND CONCRETE PLACEMENT, VERTICAL CONCRETE CASK (VCC) MPC-YANKEE	
PROJECT 455	DRAWING 866
SCALE 1/12	EXT. 4 OF 7


Security-Related Information Figure
Withheld Under 10 CFR 2.390.

 NAC INTERNATIONAL			
REINFORCING BAR AND CONCRETE PLACEMENT, VERTICAL CONCRETE CASK (VCC) MPC-YANKEE			
PROJECT	455	REVISION	866
SCALE	1/16"	EST. BY	5 7 2

Security-Related Information Figure
Withheld Under 10 CFR 2.390.

 NAC INTERNATIONAL	
REINFORCING BAR AND CONCRETE PLACEMENT, VERTICAL CONCRETE CASK (VCC) MPC-YANKEE	
PROJECT 455	DRAWING 866
SCALE 1/16" = 1'-0"	DATE 8-7-82


Security-Related Information Figure
Withheld Under 10 CFR 2.390.

 MAC INTERNATIONAL			
REINFORCING BAR AND CONCRETE PLACEMENT, VERTICAL CONCRETE CASK (VCC) MPC-YANKEE			
PROJECT	455	DRAWING	866
SCALE	N.T.S.	REV	8
DATE		7	7

R-231873

REV	CHANGE
0	INITIAL ISSUE
1	INC DCR DA

Security-Related Information Figure
Withheld Under 10 CFR 2.390.

CTRY CTRY CTRY QUANTITY		GROUP NAME DATE			
DIMENSIONS AND TOLERANCES SHALL BE FOR AS SHOWN UNLESS OTHERWISE SPECIFIED. DIMENSIONS ARE IN INCHES. FINISHES: UNLESS OTHERWISE SPECIFIED.		ALL UNPREFORMED CONCRETE SHALL BE 4000 PSI.		PROJECT 630045	
<input checked="" type="checkbox"/> CONCRETE	30 60 120 180 240 300 360 420 480 540 600 660 720 780 840 900 960 1020 1080 1140 1200 1260 1320 1380 1440 1500 1560 1620 1680 1740 1800 1860 1920 1980 2040 2100 2160 2220 2280 2340 2400 2460 2520 2580 2640 2700 2760 2820 2880 2940 3000 3060 3120 3180 3240 3300 3360 3420 3480 3540 3600 3660 3720 3780 3840 3900 3960 4020 4080 4140 4200 4260 4320 4380 4440 4500 4560 4620 4680 4740 4800 4860 4920 4980 5040 5100 5160 5220 5280 5340 5400 5460 5520 5580 5640 5700 5760 5820 5880 5940 6000 6060 6120 6180 6240 6300 6360 6420 6480 6540 6600 6660 6720 6780 6840 6900 6960 7020 7080 7140 7200 7260 7320 7380 7440 7500 7560 7620 7680 7740 7800 7860 7920 7980 8040 8100 8160 8220 8280 8340 8400 8460 8520 8580 8640 8700 8760 8820 8880 8940 9000 9060 9120 9180 9240 9300 9360 9420 9480 9540 9600 9660 9720 9780 9840 9900 9960 10020 10080 10140 10200 10260 10320 10380 10440 10500 10560 10620 10680 10740 10800 10860 10920 10980 11040 11100 11160 11220 11280 11340 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REV	CHANGE
0	INITIAL ISSUE
1	INC DCR 0A
2	INC DCR 1A

NOTE: Regulatory Approval Pending

1	37	REBAR	CARBON STEEL	ASTM A615/A615M, GR. 60	#6 (19)
2	36	LIFT ANCHOR		630045-866-95	
1	35	SPACER	CARBON STEEL	ASTM A537, CL 2	PLATE
1	34	BASE PLATE	CARBON STEEL	ASTM A537, CL 2	PLATE
2	33	LIFTING LUG	CARBON STEEL	ASTM A537, CL 2	PLATE
4	32	RTD CONNECTION HEAD	ALUMINUM	COML	2A00A1
4	31	RESISTANCE TEMPERATURE DETECTOR	ST. STL.	COML	RTD #201-01A-A-3-C-006.0-A2-Z006W
8	30	SCREEN BOLT	ST. STL.	COML	5/8-11 UNC-2A x 1 1/2 LG HEX BOLT
AR	29	INLET SCREEN	304 ST. STL.	COML	4X4X.032" WELDED WIRE CLOTH
8	28	RETAINER PLATE	304 ST. STL.	ASTM A240	18 GA. SHEET
24	27	REBAR	CARBON STEEL	ASTM A615/A615M, GR. 60	#4 (19)
8	26	REBAR	CARBON STEEL	ASTM A615/A615M, GR. 60	#6 (19)
AR	25	SEALER			PER NOTE 7
4	24	CAP SCREW	ST. STL.	COML	MCMaster CARR #92240A540
4	23	CONCRETE ANCHOR	ZINC-ALLOY	COML	MCMaster CARR #97082A150
4	22	OUTLET SCREEN		630045-866-98	
	21	(NOT USED)			
32	20	PLAIN WASHER	ST. STL.	COML	5/8
24	19	SCREEN BOLT	ST. STL.	COML	5/8-11 UNC-2A x 1.0 LG HEX BOLT
1	18	NAME PLATE		630045-864-1	
AR	17	SCREEN	304 ST. STL.	COML	4X4X.032" WELDED WIRE CLOTH
AR	16	STRIP	304 ST. STL.	ASTM A240	18 GA. SHEET
AR	15	CONCRETE SHELL	CONCRETE	COML	TYPE 2 PORTLAND CEMENT
4	14	OUTLET WELDMENT		630045-861-97	
1	13	LINER WELDMENT		630045-861-99	
1	12	BASE WELDMENT		630045-861-98	
4	11	REBAR	CARBON STEEL	ASTM A615/A615M, GR. 60	#6 (19)
4	10	REBAR	CARBON STEEL	ASTM A615/A615M, GR. 60	#6 (19)
	9	REBAR	CARBON STEEL	ASTM A615/A615M, GR. 60	#6 (19)
34	8	REBAR	CARBON STEEL	ASTM A615/A615M, GR. 60	#6 (19)
17	7	REBAR	CARBON STEEL	ASTM A615/A615M, GR. 60	#6 (19)
12	6	REBAR	CARBON STEEL	ASTM A615/A615M, GR. 60	#6 (19)
28	5	REBAR	CARBON STEEL	ASTM A615/A615M, GR. 60	#6 (19)
28	4	REBAR	CARBON STEEL	ASTM A615/A615M, GR. 60	#6 (19)
4	3	RTD MOUNTING PLATE	304 ST. STL.	COML	3/8 x 2 x 6.5
16	2	REBAR	CARBON STEEL	ASTM A615/A615M, GR. 60	#6 (19)
8	1	REBAR	CARBON STEEL	ASTM A615/A615M, GR. 60	#6 (19)

UNLESS OTHERWISE STATED				GROUP	NAME	DATE
DIMENSIONING AND TOLERANCING SHALL BE PER ASME Y14.5M-94. UNLESS OTHERWISE STATED, DIMENSIONAL TOLERANCES ARE SHOWN BELOW.				PREPARED	V. Stupelman	3-18-16
ALL THREAD DEPTH CALLOUTS ARE TO BE CONSIDERED AS A MIN. DEPTH OF PERFECT THREADS. THE ACTUAL DEPTH OF THE THREADS IS NOT SUBJECT TO TOLERANCE CONTROLS.				CHECKED	D. J. [Signature]	3-18-16
WEIGHTS ARE APPROXIMATE AND ARE TO BE USED FOR HANDLING PURPOSES ONLY.				PROJECT MANAGER	B. J. [Signature]	3/25/16
ALL DIMENSIONS ARE IN INCHES				ENGINEERING	[Signature]	3-18-16
BORDER SIZE: F (40 X 28)				DESIGNING	[Signature]	3/25/16
ALL UNSPECIFIED TOOL RADII: .015 - .030				QUALITY	Rayw. [Signature]	3/29/16
BREAK ALL SHARP CORNERS .015 - .030						
MACHINED SURFACES TO BE [Symbol] OR BETTER						
NEXT ASSEMBLY: 630045-862						
DRAWING TYPE: LICENSE						


PROJECT 630045		DRAWING 866	REV 2
SCALE N.T.S.		WEIGHT N/A	SH 1 OF 7
3:03PM 03-17-2016			

NAC INTERNATIONAL
REINFORCING BAR AND
CONCRETE PLACEMENT,
VERTICAL CONCRETE CASK (VCC)
MPC-LACBWR


- 21 LIFT ANCHOR SHALL BE SUBJECTED AS AN ASSEMBLY TO A PROOF LOAD TEST AND POST TEST NDE.
- 20 TOP OF HOLES IN LIFT ANCHORS SHALL BE LEVEL TO EACH OTHER WITHIN 1/8 INCH.
- 19 CUT AS NECESSARY FOR ACCESS TO INTERIOR OF REBAR CAGE AND TO AVOID INTERFERENCE WITH LIFT ANCHOR OR VENTS.
- 18 PREPARE ALL SURFACES THAT WILL REMAIN EXPOSED AFTER FINAL CONCRETE PLACEMENT IN ACCORDANCE WITH SSPC-SP1. NEAR-WHITE BLAST CLEAN PER SSPC-SP10. APPLY AMERLOCK 400GF (ANSI 70 GRAY) TO ALL PREPARED SURFACES. WRAP COATING OVER ALL EDGES TO ENSURE COMPLETE COVERAGE. APPLY ALL COATINGS PER MANUFACTURER'S APPLICATION INSTRUCTION. OTHER COATINGS MAY BE USED IF APPROVED BY NAC.
- 17 SITE SPECIFIC CONFIGURATION FOR WASTE CONTROL SPECIALISTS (WCS).
- 16 SEAL WELD OPEN SEAMS.
- 15 CONSTRUCTION AIDS.
14. LOCATION OF HORIZONTAL REINFORCEMENT CAN BE REVERSED WITH THE VERTICAL REINFORCEMENT, BOTH INSIDE AND OUTSIDE REINFORCEMENT CURTAIN.
13. SLOPE CONCRETE DOWNWARD FROM EDGE OF TOP FLANGE OF ITEM 13, "LINER WELDMENT" TO THE CHAMFER USING GOOD CONSTRUCTION PRACTICES WHILE MAINTAINING THE MINIMUM CONCRETE COVER.
12. 1 1/2-6 UNC LIFTING HOLES IN TOP FLANGE OF ITEM 13 (LINER WELDMENT) TO BE GROUTED AFTER FINAL CONCRETE PLACEMENT.
- 11 FIELD MODIFICATION OF SCREEN IS PERMISSIBLE TO ENSURE TIGHT FIT TO CONCRETE. SCREEN SHALL NOT PROTRUDE ABOVE LOWER EDGE OF CASK TOP CHAMFER.
- 10 FOR ASSEMBLY -98, ITEM 16 MAY BE REPLACED BY A SINGLE PIECE OF SHEET.
- 9 INSTALL PER MANUFACTURERS INSTRUCTIONS. OTHER STAINLESS STEEL DROP IN ANCHORS ARE ACCEPTABLE FOR USE IN PLACE. SCREW/BOLT (ITEM 29) SHALL BE STAINLESS STEEL AND MATE WITH THE ANCHOR.
- 8 ATTACH EACH SCREEN WITH FOUR SCREEN BOLTS, ITEM 19, AND FOUR PLAIN WASHERS, ITEM 20. CARE MUST BE TAKEN TO PROTECT SCREEN ATTACHMENT POINTS DURING CONCRETE FORMING.
7. COAT ALL EXPOSED CONCRETE SURFACES WITH AN APPROVED SEALER.
6. CONCRETE SHALL DEVELOP A COMPRESSIVE STRENGTH (F_C) OF 4000 PSI USING TYPE 2 PORTLAND CEMENT, 1 1/2 IN. MAXIMUM SIZE AGGREGATE. CONCRETE DENSITY SHALL BE AVERAGE OF 145 PCF WITH NO SINGLE TEST LESS THAN 142 PCF. AIR ENTRAINMENT SHALL BE 3% TO 6%. 1% LOWER AIR CONTENT IS PERMISSIBLE FOR CONCRETE WITH F_C GREATER THAN 5000 PSI.
5. ALL REBAR OVERLAPS TO BE 33 INCHES MINIMUM. REBAR OVERLAPS IN ADJACENT HOOPS SHALL NOT BE VERTICALLY ALIGNED.
4. A MINIMUM OF 3 INCHES CONCRETE COVER SHALL BE MAINTAINED FOR REINFORCEMENT AT THE EXTERIOR CONCRETE SURFACES AND 2 INCHES CONCRETE COVER BETWEEN THE EXTERIOR OF THE CASK LINER AND THE REINFORCEMENT. MAINTAIN A 3/4" MINIMUM CONCRETE COVER BETWEEN ALL OTHER NON-EXPOSED SURFACES AND THE REINFORCEMENT UNLESS OTHERWISE NOTED ACCORDANCE WITH THE TOLERANCES AS ALLOWED BY ACI 117-90.
3. ALL BENDING OF REBARS SHALL BE PERFORMED COLD, ALL HOOKS ARE STANDARD UNLESS OTHERWISE DETAILED.
2. ALL REINFORCEMENT BARS MAY BE FIELD CUT, BENT AND PLACED OR TIED FOR CLEARANCE AS APPROVED BY NAC ENGINEERING.
1. REINFORCEMENT FABRICATION SHALL COMPLY WITH ACI 318/318R AND 349/349R STANDARDS. STANDARD REINFORCEMENT PLACEMENT SHALL BE IN ACCORDANCE WITH ACI 117-90 TOLERANCES.

NOTES:


Security-Related Information Figure
Withheld Under 10 CFR 2.390.

 NAC INTERNATIONAL			
REINFORCING BAR AND CONCRETE PLACEMENT, VERTICAL CONCRETE CASK (VCC), MPC-LACBWR			
PROJECT	630045	DESIGN	866
SCALE	N.T.S.	HEET	N/A
		OF	7


Security-Related Information Figure
Withheld Under 10 CFR 2.390.

 NAC INTERNATIONAL			
REINFORCING BAR AND CONCRETE PLACEMENT, VERTICAL CONCRETE CASK (VCC), MPC-LACBWR			
PROJECT	630045	DRAWING	866
SCALE	N.T.S.	REVISION	N/A
		SHEET	3 OF 7
		(2)	


Security-Related Information Figure
Withheld Under 10 CFR 2.390.

 NAC INTERNATIONAL			
REINFORCING BAR AND CONCRETE PLACEMENT, VERTICAL CONCRETE CASK (VCC) MPC-LACBWR			
PROJECT	630045	DRAWING	866
SCALE	N.T.S.	REVISION	2
		BY	4
		DATE	7


Security-Related Information Figure
Withheld Under 10 CFR 2.390.

 NAC INTERNATIONAL			
REINFORCING BAR AND CONCRETE PLACEMENT, VERTICAL CONCRETE CASK (VCC), MPC-LACBWR			
PROJECT	630045	DRAWING	866
SCALE	N.T.S.	REVISION	N/A
		BY	5
		CHK	7
		APP	(2)

Security-Related Information Figure
Withheld Under 10 CFR 2.390.

 NAC INTERNATIONAL		
REINFORCING BAR AND CONCRETE PLACEMENT, VERTICAL CONCRETE CASK (VCC) MPC-LACBWR		
PROJECT	630045	DESIGN
SCALE	N.T.S.	DATE
SCALE	N.T.S.	DATE
SCALE	N.T.S.	DATE

Security-Related Information Figure
Withheld Under 10 CFR 2.390.

 NAC INTERNATIONAL		
REINFORCING BAR AND CONCRETE PLACEMENT, VERTICAL CONCRETE CASK (VCC) MPC-LACBWR		
PROJECT	630045	DRAWING 866
SCALE N.T.S.	HEIGHT N/A	SH 7 OF 7