		Wed, 20 Jun 2018, 01:33 PM	
COUPON SPECIFICS			
Coupon ID	1		
Coupon Location	14-UD-A-42-45-107	1	
Coupon Dimensions	12" * 12"	_	
Coupon Thickness	¼" (NDE: minimum 0.147")	Prove-up: minimum 0.112"	
Locations of Welds	No	ne	
	ON SITE VISUAL EXAMINATION		
Checks	Observ	vations	
Checks	Exterior	Interior	
Deposits, Coatings, Debris	Deposits	Standard coating with paint	
Scale	None	None	
Observed Biological Material	None	None	
Wet or Dry	Wet	Dry	
Smell	Damp, burnt	Burnt	
Presence of petroleum product between steel and concrete surface, and on or above the leg of the angle backer bar embedded in the concrete	No	No	
Provide a sketch of the coupon showing all indications. Provide ID#s for all indications on coupon and compare with NDE expected results sketch	Corrosion found, as expected, but no pits	dimplet to a	
Presence of corrosion	Yes	No	
Isolated pitting	No	No	
Isolated pitting within areas of general corrosion	No	No	
Linked pitting within areas of general corrosion	No	No	
Identify color of corrosion products	Brown	N/A	
Identify if selected attack at welds	N/A	N/A	
Provide photo documentation with a minimum resolution of 2560 x 1920 of the coupon, front and back.		#	

		Tue, 19 Jun 2018, 10:46 AM	
COUPON SPECIFICS			
Coupon ID	2		
Coupon Location	14-ER-E3-12-33-40	7	
Coupon Dimensions	12" * 12"	_	
Coupon Thickness	¼" (NDE: minimum 0.157")	Prove-up: minimum 0.150"	
Locations of Welds		one	
	ON SITE VISUAL EXAMINATION		
	Obser	vations	
Checks	Exterior	Interior	
Deposits, Coatings, Debris	Lots of deposits and coatings	Regular coating	
Scale	None	None	
Observed Biological Material	None	None	
Wet or Dry	Wet	Dry	
•		Burnt but less intense than	
Smell	Thick, burnt, musty, muddy	exterior	
Presence of petroleum product between steel and concrete surface, and on or above the leg of the angle backer bar embedded in the concrete	No	No	
Provide a sketch of the coupon showing all indications. Provide ID#s for all indications on coupon and compare with NDE expected results sketch	Backside corrosion and pits found, as expected		
Presence of corrosion	Yes	Yes	
Isolated pitting	Yes	Yes	
Isolated pitting within areas of general corrosion	Yes	No (pit is not in area of general corrosion)	
Linked pitting within areas of general corrosion	No	No	
Identify color of corrosion products	Brown, black, gray	Brown	
Identify if selected attack at welds	N/A	N/A	
Provide photo documentation with a minimum resolution of 2560 x 1920 of the coupon, front and back.		*23	

		Tue, 19 Jun 2018, 3:00 PM
	COUPON SPECIFICS	,,,
Coupon ID	3	
Coupon Location	14-ER-E3-13-9-18	3
Coupon Dimensions	12" * 12"	3
Coupon Thickness	¼" (NDE: minimum 0.033")	(No prove-up-phase thickness)
Locations of Welds	No	
	ON SITE VISUAL EXAMINATION	
	Observ	rations
Checks	Exterior	Interior
Deposits, Coatings, Debris	Thick, brown, grey deposits	Standard coating with paint
Scale	None	None
Observed Biological Material	None	None
Wet or Dry	Wet	Dry
Smell	Burnt, like wax or coconut oil	None
Presence of petroleum product	[Field notes say "Yes," but that is	
between steel and concrete	a misunderstanding. Moisture	
surface, and on or above the leg	was corrosion product, not	No
of the angle backer bar	petroleum product. Please see	
embedded in the concrete	concrete notes for Coupon 3]	
Provide a sketch of the coupon showing all indications. Provide ID#s for all indications on coupon and compare with NDE expected results sketch	Corrosion found, despite expectation of manufacturing flaw only. No horizontal flaw on actual coupon	
Presence of corrosion	Yes	Yes
Isolated pitting	Yes	Yes
Isolated pitting within areas of general corrosion	Yes	No
Linked pitting within areas of general corrosion	No	No
Identify color of corrosion products	White, brown	Brown
Identify if selected attack at welds	N/A	N/A
Provide photo documentation with a minimum resolution of 2560 x 1920 of the coupon, front and back.		Col N #3

Wed, 20 Jun 2018, 08:20 AM			
COUPON SPECIFICS			
Coupon ID	5		
Coupon Location	14-BA-26-15-15-8	5	
Coupon Dimensions	12" * 12"	J	
Coupon Thickness	¼" (NDE: minimum 0.047")	(no prove-up-phase thickness)	
Locations of Welds	None		
	ON SITE VISUAL EXAMINATION		
Charles	Observ	vations	
Checks	Exterior	Interior	
Deposits, Coatings, Debris	Concrete layer, thin	Standard coating	
Scale	None	None	
Observed Biological Material	None	None	
Wet or Dry	Dry	Dry	
Smell	Burnt	Burnt	
Presence of petroleum product			
between steel and concrete			
surface, and on or above the leg	No	No	
of the angle backer bar			
embedded in the concrete			
Provide a sketch of the coupon showing all indications. Provide ID#s for all indications on coupon and compare with NDE expected results sketch	Corrosion found, as expected (writing says "horiz bulge")		
Presence of corrosion	Yes	No	
Isolated pitting	No	No	
Isolated pitting within areas of			
general corrosion	No	No	
Linked pitting within areas of			
general corrosion	No	No	
Identify color of corrosion products	Brown	N/A	
Identify if selected attack at	N/A	N/A	
welds	1.4/2.		
Provide photo documentation with a minimum resolution of 2560 x 1920 of the coupon, front and back.		College Horse	

		Thu, 21 Jun 2018, 11:05 AM		
COUPON SPECIFICS				
Coupon ID 6				
Coupon Location	14-BA-24-8-36-30	6		
Coupon Dimensions	12" * 12"	•		
Coupon Thickness	1/4" (NDE: No reported thickness; greater than 0.200")	(No prove-up-phase thickness)		
Locations of Welds	No	ne		
Locations of Weids	ON SITE VISUAL EXAMINATION	nie		
	Observ	vations		
Checks	Exterior	Interior		
Deposits, Coatings, Debris	Scrapes	Standard coating		
Scale	Concrete	None		
Observed Biological Material	None	None		
Wet or Dry	Dry	Dry		
Smell	Burnt	Burnt		
Presence of petroleum product between steel and concrete surface, and on or above the leg of the angle backer bar embedded in the concrete	No	No		
Provide a sketch of the coupon showing all indications. Provide ID#s for all indications on coupon and compare with NDE expected results sketch	Small amount of corrosion found, although no indication was found in NDE and sketch	0		
Presence of corrosion	Yes, small	Yes, tiny		
Isolated pitting	No	No		
Isolated pitting within areas of general corrosion	No	No		
Linked pitting within areas of general corrosion	No	No		
Identify color of corrosion products	Brown	Brown		
Identify if selected attack at welds	N/A	N/A		
Provide photo documentation with a minimum resolution of 2560 x 1920 of the coupon, front and back.		#6		

		Thu, 21 Jun 2018, 10:35 AM		
	COUPON SPECIFICS	,		
Coupon ID 7				
Coupon Location	14-BA-23-7-38-49	7		
Coupon Dimensions	12" * 12"	"		
Coupon Thickness	¼" (NDE: minimum 0.157")	Prove-up: minimum 0.135"		
Locations of Welds	No	-		
	ON SITE VISUAL EXAMINATION			
ClI	Observ	/ations		
Checks	Exterior	Interior		
Deposits, Coatings, Debris	Lots of general corrosion	Standard coating		
Scale	Yes, thick, varied	None		
Observed Biological Material	None	None		
Wet or Dry	Wet	Dry		
Smell	Burnt, damp	Burnt		
Presence of petroleum product				
between steel and concrete				
surface, and on or above the leg	No	No		
of the angle backer bar				
embedded in the concrete				
Provide a sketch of the coupon showing all indications. Provide ID#s for all indications on coupon and compare with NDE expected results sketch	Lots of corrosion found, as expected	o con.		
Presence of corrosion	Yes	Yes		
Isolated pitting	Yes	No		
Isolated pitting within areas of general corrosion	Yes	No		
Linked pitting within areas of general corrosion	No	No		
Identify color of corrosion products	Brown, black	Brown		
Identify if selected attack at welds	N/A	N/A		
Provide photo documentation with a minimum resolution of 2560 x 1920 of the coupon, front and back.		1Hrbor 23-17		

Wed, 20 Jun 2018, 09:40 AM				
	COUPON SPECIFICS			
Coupon ID	8			
Coupon Location	14-BA-20-13-236-43	8		
Coupon Dimensions	12" * 12"			
Coupon Thickness	¼" (NDE: minimum 0.069")	Prove-up: minimum 0.200"		
Locations of Welds	About 2" from right edge of	-		
	ON SITE VISUAL EXAMINATION	,		
	Observ	vations		
Checks	Exterior	Interior		
Deposits, Coatings, Debris	White coating	Standard coating with pink, white paint		
Scale	None	None		
Observed Biological Material	None	None		
Wet or Dry	Dry	Dry		
Smell	Burnt metal	Fuel-like		
Presence of petroleum product				
between steel and concrete				
surface, and on or above the leg	No	No		
of the angle backer bar		110		
embedded in the concrete				
Provide a sketch of the coupon showing all indications. Provide ID#s for all indications on coupon and compare with NDE expected results sketch	Manufacturing flaw and slight corrosion found, as expected.	fillet weld (1/2") patel (2"x3")		
Presence of corrosion	Yes	No		
Isolated pitting	Yes (Pit 1: 5" from left, 2" from top) (Pit 2: 7" from left, 5" from top)	No		
Isolated pitting within areas of general corrosion	Yes	No		
Linked pitting within areas of general corrosion	No	No		
Identify color of corrosion products	Brown	No		
Identify if selected attack at welds	Yes	N/A		
Provide photo documentation with a minimum resolution of 2560 x 1920 of the coupon, front and back.				

Thu, 21 Jun 2018, 10:30 AM				
	COUPON SPECIFICS	· · ·		
Coupon ID 10				
Coupon Location	14-LD-3-9-24-215	10		
Coupon Dimensions	12" * 12"	10		
Coupon Thickness	½" (NDE: minimum 0.198")	Prove-up: minimum 0.200"		
Locations of Welds	No	•		
	ON SITE VISUAL EXAMINATION			
	Observ	rations		
Checks	Exterior	Interior		
Deposits, Coatings, Debris	Coal-tar-like	Lots of surface debris		
Scale	None	None		
Observed Biological Material	None	None		
Wet or Dry	Wet	Dry		
Smell	Coal-tar-like	None		
Presence of petroleum product	Cod. tal line	,,,,,,,		
between steel and concrete				
surface, and on or above the leg	No	No		
of the angle backer bar		110		
embedded in the concrete				
Provide a sketch of the coupon showing all indications. Provide ID#s for all indications on coupon and compare with NDE expected results sketch	Only minor corrosion found, as expected. Black substance was not expected in sketch			
Presence of corrosion	Yes (small)	Yes		
Isolated pitting	No	Yes		
Isolated pitting within areas of general corrosion	No	No		
Linked pitting within areas of general corrosion	No	No		
Identify color of corrosion products	Brown	Brown		
Identify if selected attack at welds	N/A	N/A		
Provide photo documentation with a minimum resolution of 2560 x 1920 of the coupon, front and back.		Carpo de 10		

Wed, 20 Jun 2018, 10:55 AM			
COUPON SPECIFICS			
Coupon ID	A1		
Coupon Location	14-BA-23-9-95-50	A 1	
Coupon Dimensions	12" * 12"	,	
Coupon Thickness	¼" (NDE: minimum 0.134")	(no prove-up-phase thickness)	
Locations of Welds	No	ne	
	ON SITE VISUAL EXAMINATION		
Checks	Observ	ations	
CHECKS	Exterior	Interior	
Deposits, Coatings, Debris	Abundant corrosion product	Standard coating	
Scale	None	None	
Observed Biological Material	None	None	
Wet or Dry	Dry	Dry	
Smell	Burnt, musty	Burnt	
Presence of petroleum product			
between steel and concrete			
surface, and on or above the leg	No	No	
of the angle backer bar			
embedded in the concrete			
Provide a sketch of the coupon showing all indications. Provide ID#s for all indications on coupon and compare with NDE expected results sketch	General and pitting corrosion found, as expected (Writing: "corrosion" and	(Writing: "scratches, grinding marks" and "rust")	
Presence of corrosion	"calcareous passivating deposit") Yes	Yes	
Isolated pitting	Yes (Pit: 7.5" from left, 2.5" from top)	No	
Isolated pitting within areas of general corrosion	Yes	No	
Linked pitting within areas of general corrosion	Yes	No	
Identify color of corrosion products	Dark brown	Brown	
Identify if selected attack at welds	Yes	N/A	
Provide photo documentation with a minimum resolution of 2560 x 1920 of the coupon, front and back.		Courtain All Control	

Thu, 21 Jun 2018, 10:30 PN		
COUPON SPECIFICS		
Coupon ID	A2	
Coupon Location	14-BA-11-4-226-50	A2
Coupon Dimensions	12" * 12"	<i>,</i>
Coupon Thickness	¼" (NDE: minimum 0.161")	(no prove-up-phase thickness)
Locations of Welds	No	ne
	ON SITE VISUAL EXAMINATION	
Checks	Observ	yations
CHECKS	Exterior	Interior
Deposits, Coatings, Debris	Thin concrete film on 50% of surface	Standard coating
Scale	None	None
Observed Biological Material	None	None
Wet or Dry	Dry	Dry
Smell	None	None
Presence of petroleum product between steel and concrete surface, and on or above the leg of the angle backer bar embedded in the concrete	No	No
Provide a sketch of the coupon showing all indications. Provide ID#s for all indications on coupon and compare with NDE expected results sketch	General metal loss and general corrosion found, as expected	dipunte 3/2 from hight dimale from hoten from the home
Presence of corrosion	Yes, general	No
Isolated pitting	No	No
Isolated pitting within areas of general corrosion	No	No
Linked pitting within areas of general corrosion	No	No
Identify color of corrosion products	Brown	N/A
Identify if selected attack at welds	N/A	N/A
Provide photo documentation with a minimum resolution of 2560 x 1920 of the coupon, front and back.		Top + A2

	6/	20/2018: 1400
	CONCRETE SAMPLE SPECIFICS	
Sample ID	1	_
Sample Location	14-UD-A-42-45-107	1
Sample Dimensions	12X12 INCHES	
	ON SITE VISUAL EXAMINATION	
Checks	Observations	
CHECKS	Exterior	Units
Void space between		
concrete and liner (if	1/8" Void on left side, no voids in all other areas	
any)		
Biological Materials	None	
Wet or Dry	Dry	
Smell	None	
Temperature	76.9	F
Surface pH	9 to 9.5	
Structure to	-0.252	Volts/CSE
Electrolyte	-0.232	VOILS/CSE
Concrete Resistivity	26.4 Horizontal	k-ohm-cm
Concrete Resistivity	31.1 Vertical	k-ohm-cm
General Condition	Excellent, sound concrete with some discoloration and no cracks	
deficial condition	and no delamination	

		6/19/2018: 0930	
	CONCRETE SAMPLE SPECIFICS		
Sample ID	2	_	
Sample Location	14-ER-E3-12-33-40	2	
Sample Dimensions	12X12 INCHES	-	
	ON SITE VISUAL EXAMINATION		
Checks	Observations		
CHECKS	Exterior	Units	
Void space between concrete and liner (if any)	1/8" void at upper left side. Otherwise no voids.		
Biological Materials	None		
Wet or Dry	Slightly damp		
Smell	Musty, no fuel		
Temperature	80.0	F	
Surface pH	10-11 corroded area		
зипасе рп	11-12 non-corroded area		
Structure to Electrolyte	-0.380	Volts/CSE	
Concrete Resistivity	19.0 Horizontal	k-ohm-cm	
Concrete Resistivity	17.5 Vertical	k-ohm-cm	
	Good sound condition with some minor spalling and		
General Condition	corrosion product. Coupon took some hammering		
	to remove		

		6/19/2018: 14:00
	CONCRETE SAMPLE SPECIFICS	
Sample ID	3	
Sample Location	14-ER-E3-13-7-18	3
Sample Dimensions	12X12 INCHES	
	ON SITE VISUAL EXAMINATION	
Checks	Observations	
Checks	Exterior	Units
Void space between	On left side, uneven corrosion product and a 1/16-inch	
concrete and liner (if any)	void. Otherwise, no voids.	
Biological Materials	None	
Wet or Dry	Mostly dry, with some damp spots	
Smell	None	
Temperature	79.3	F
Surface pH	11-12 dry areas, 7-8 in areas with corrosion product	
Structure to Electrolyte	-0.488	Volts/CSE
Community Bushallada	27.8 Horizontal	K Ol
Concrete Resistivity	31.2 Vertical	K-Ohm-cm
	Good, with some corrosion products.	
	Corrosion product was black on the left side, and	
General Condition	brown in some other areas.	
General Condition	Concrete was hard and difficult to drill for powder	
	samples. Coupons required some hammering and	
	prying to remove after cutting.	

		6/20/2018: 0800
	CONCRETE SAMPLE SPECIFICS	
Sample ID	5	_
Sample Location	14-DA-26-15-15-8	5
Sample Dimensions	12X12 INCHES	
	ON SITE VISUAL EXAMINATION	
Checks	Observations	
Checks	Exterior	Units
Void space between concrete and liner (if any)	1/16" Void on top right side, no voids in all other areas	
Biological Materials	None	
Wet or Dry	Dry	
Smell	None	
Temperature	78.5	F
Surface pH	11-12	
Structure to Electrolyte	-0.220	Volts/CSE
	19.1 Horizontal	k-ohm-cm
Concrete Resistivity	22.0 Vertical	k-ohm-cm
General Condition	Excellent, sound concrete	

		6/21/2018: 1100
	CONCRETE SAMPLE SPECIFICS	
Sample ID	6	
Sample Location	14-BA-24-8-36-30	6
Sample Dimensions	12X12 INCHES	
	ON SITE VISUAL EXAMINATION	
Checks	Observations	
CHECKS	Exterior	Units
Void space between concrete and liner (if any)	None, however some loose adhering grout present	
Biological Materials	None	
Wet or Dry	Dry	
Smell	None	
Temperature	77.4F	F
Surface pH	12.5	
Structure to Electrolyte	-0.387	Volts/CSE
Concrete Resistivity	Horizontal = 387	k-ohm-cm
Concrete Resistivity	Vertical = 359	k-ohm-cm
General Condition	Concrete is sound, no delamination. There is loose	
deficial condition	adhering grout on left side and middle	

		6/21/2018: 1030
	CONCRETE SAMPLE SPECIFICS	
Sample ID	7	
Sample Location	14-BA-23-7-38-49	7
Sample Dimensions	12X12 INCHES	•
	ON SITE VISUAL EXAMINATION	
Checks	Observations	
CHECKS	Exterior	Units
Void space between concrete and liner (if any)	3/8" void on left side. 1/16" void on top right otherwise no voids	
Biological Materials	None	
Wet or Dry		
Smell	none	
Temperature	77.5F	F
Surface pH	9- 10	
Structure to Electrolyte		Volts/CSE
Concrete Resistivity	Horizontal = 39.3	k-ohm-cm
Concrete Resistivity	Vertical = 42.4	k-ohm-cm
General Condition	Concrete is sound with no delamination or cracks. Some	
deneral condition	brown and black corrosion products on concrete	

		6/20/2018: 1400
	CONCRETE SAMPLE SPECIFICS	
Sample ID	8	
Sample Location	14-BA-20-13-23-4	8
Sample Dimensions	12X12 INCHES)
	ON SITE VISUAL EXAMINATION	
Checks	Observations	
CHECKS	Exterior	Units
Void space between concrete and liner (if any)	1/16" Void on left side, no voids in all other areas	
Biological Materials	None	
Wet or Dry	Dry	
Smell	None	
Temperature	80.0	F
Surface pH	11-12	
Structure to Electrolyte	-0.248	Volts/CSE
Concrete Resistivity	30.9 Horizontal	k-ohm-cm
Concrete Resistivity	27.5 Vertical	k-ohm-cm
General Condition	Excellent, sound concrete with no cracks or delamination.	
	Coupon had steel backing plate	

		6/21/2018: 0930
	CONCRETE SAMPLE SPECIFICS	
Sample ID	10	
Sample Location	14-LD-3-9-24-215	10
Sample Dimensions	12X12 INCHES	
	ON SITE VISUAL EXAMINATION	
Checks	Observations	
Criecks	Exterior	Units
Void space between concrete and liner (if any)	None	
Biological Materials	None	
Wet or Dry	Dry	
Smell	Smells like coal tar	
Temperature	77.6	F
Surface pH	12-12.5	
Structure to Electrolyte	-0.181	Volts/CSE
Community Burgarian	27.3 Horizontal	k-ohm-cm
Concrete Resistivity	38.1 Vertical	k-ohm-cm
General Condition	Excellent, sound concrete with no cracks or delamination. Coupon had to be cut into two pieces to remove. What appears to be coal tar coating present on backside of coupon and concrete.	

		6/20/2018: 1100
	CONCRETE SAMPLE SPECIFICS	
Sample ID	A1	
Sample Location	14-BA-23-9-95-50	A1
Sample Dimensions	12X12 INCHES	
	ON SITE VISUAL EXAMINATION	
Checks	Observations	
CHECKS	Exterior	Units
Void space between concrete and liner (if any)	1/8" Void on left side, no voids in all other areas	
Biological Materials	None	
Wet or Dry	Mostly dry with damp areas around corrosion product	
Smell	None	
Temperature	77.5	F
Surface pH	11-12 in dry areas, 7-8 in corroded area	
Structure to Electrolyte	-0.448 (dry area) -0.432 (damp area w. corrosion products)	Volts/CSE
Concrete Resistivity	32.9 Horizontal 37.0 Vertical	k-ohm-cm
General Condition	Good condition with sound concrete, no cracks or delamination. Corrosion products are present on concrete.	

		6/20/2018: 1530
	CONCRETE SAMPLE SPECIFICS	
Sample ID	A2	
Sample Location	14-BA-11-4-226-50	A2
Sample Dimensions	12X12 INCHES	, · · ·
	ON SITE VISUAL EXAMINATION	
Checks	Observations	
Checks	Exterior	Units
Void space between concrete	1/2" Void on left and bottom side. ¼"void on the	
and liner (if any)	right side	
Biological Materials	None	
Wet or Dry	Dry	
Smell	None	
Temperature	78.4	F
Surface pH	11-12	
	-0.226 (middle)	V II /005
Structure to Electrolyte	-0.230 (right side)	Volts/CSE
Community Desirabilities	35.8 Horizontal	To be to some some
Concrete Resistivity	36.1 Vertical	k-ohm-cm
	Good condition with sound concrete, no cracks or	
General Condition	delamination. There is a layer of concrete which	
General Condition	appears to have come off. Below that layer is	
	sound concrete.	
Provide photo documentation with a minimum resolution of 2560 x 1920 of the coupon, front and back.		