		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	dimples 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	N/A	N/A	
welds	N/A	N/A	
Provide photo documentation with a minimum resolution of 2560 x 1920 of the coupon, front and back.		#8	

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	No	one	
	ON SITE VISUAL EXAMINATION		
Checks	Observ	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	
Smell	Thick, burnt, musty, muddy	Burnt but less intense than 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.		*2 ³	

		Tuo 10 lun 2018 2:00 DM	
Tue, 19 Jun 2018, 3:00 PM COUPON SPECIFICS			
Coupon ID	3		
Coupon Location	14-ER-E3-13-9-18	2	
Coupon Dimensions	12" * 12"	3	
Coupon Thickness	½" (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.		Co 30 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"	-	
Coupon Thickness	¼" (NDE: minimum 0.047")	(no prove-up-phase thickness)	
Locations of Welds	None	, , , , , , , , , , , , , , , , , , , ,	
	ON SITE VISUAL EXAMINATION		
	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 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 (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 welds	N/A	N/A	
Provide photo documentation with a minimum resolution of 2560 x 1920 of the coupon, front and back.			

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	ine	
	ON SITE VISUAL EXAMINATION		
Charle	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.		Cover 1 to	

		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	one	
	ON SITE VISUAL EXAMINATION		
Checks	Observ	vations	
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 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	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.		1HPBOY 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"	0	
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		
Charalla.	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 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	Manufacturing flaw and slight corrosion found, as expected.	fillet, weld ("/2") pately (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	¼" (NDE: minimum 0.198")	Prove-up: minimum 0.200"	
Locations of Welds	No	•	
	ON SITE VISUAL EXAMINATION		
Charal a	Observ	vations	
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			
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	Only minor corrosion found, as expected. Black substance was not expected in sketch	O L. C.	
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.		Control of the second of the s	

Wed, 20 Jun 2018, 10:55 AM			
COUPON SPECIFICS			
Coupon ID	A1		
Coupon Location	14-BA-23-9-95-50	Α1	
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	vations	
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 "calcareous passivating deposit")	(Writing: "scratches, grinding marks" and "rust")	
Presence of corrosion	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.		Carrier Carrier	

Thu, 21 Jun 2018, 10:30 PM			
COUPON SPECIFICS			
Coupon ID	A2		
Coupon Location	14-BA-11-4-226-50	A2	
Coupon Dimensions	12" * 12"	,	
Coupon Thickness	¼" (NDE: minimum 0.161")	(no prove-up-phase thickness)	
Locations of Welds	No	ne	
	ON SITE VISUAL EXAMINATION		
Checks	Observ	vations value of the state of t	
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	dipute 3/2 from hight dimple from bottom to a night	
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	20,2020.2.00
Sample ID	1	_
Sample Location	14-UD-A-42-45-107	1
Sample Dimensions	12X12 INCHES	-
·	ON SITE VISUAL EXAMINATION	
Charles	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	Dry	
Smell	None	
Temperature	76.9	F
Surface pH	9 to 9.5	
Structure to Electrolyte	-0.252	Volts/CSE
Concrete Resistivity	26.4 Horizontal 31.1 Vertical	k-ohm-cm k-ohm-cm
General Condition	Excellent, sound concrete with some discoloration and no cracks and no delamination	

		6/19/2018: 0930
CONCRETE SAMPLE SPECIFICS		
Sample ID	2	
Sample Location	14-ER-E3-12-33-40	7
Sample Dimensions	12X12 INCHES	
	ON SITE VISUAL EXAMINATION	
Ch l -	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
Company	10-11 corroded area	
Surface pH	11-12 non-corroded area	
Structure to Electrolyte	-0.380	Volts/CSE
Congrete Desistivity	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	1 3
Sample Dimensions	12X12 INCHES	
,	ON SITE VISUAL EXAMINATION	
	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
-	27.8 Horizontal	
Concrete Resistivity	31.2 Vertical	K-Ohm-cm
	Good, with some corrosion products.	
	Corrosion product was black on the left side, and	
	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	
Charles	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
Concrete Resistivity	19.1 Horizontal	k-ohm-cm
	22.0 Vertical	k-ohm-cm
General Condition	Excellent, sound concrete	
	126	

		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	None, however some loose adhering grout present	
any)		
Biological Materials	None	
Wet or Dry	Dry	
Smell	None	
Temperature	77.4F	F
Surface pH	12.5	
Structure to Electrolyte	-0.387	Volts/CSE
Compando Dopistivity	Horizontal = 387	k-ohm-cm
Concrete Resistivity	Vertical = 359	k-ohm-cm
General Condition	Concrete is sound, no delamination. There is loose	
General 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	
Charles	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 Vertical = 42.4	k-ohm-cm k-ohm-cm
General Condition	Concrete is sound with no delamination or cracks. Some 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	0
·	ON SITE VISUAL EXAMINATION	
Clara dua	Observations	
Checks	Exterior	Units
Void space between		
concrete and liner (if	1/16" Void on left side, no voids in all other areas	
any)		
Biological Materials	None	
Wet or Dry	Dry	
Smell	None	
Temperature	80.0	F
Surface pH	11-12	
Structure to Electrolyte	-0.248	Volts/CSE
Caramata Danisticita	30.9 Horizontal	k-ohm-cm
Concrete Resistivity	27.5 Vertical	k-ohm-cm
General Condition	Excellent, sound concrete with no cracks or delamination.	
General Condition	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		
CHECKS	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	
Concrete Resistivity	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	<i>,</i>
	ON SITE VISUAL EXAMINATION	
Checks	Observations	
	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	
Structure to Electrolyte	-0.226 (middle)	Volts/CSE
	-0.230 (right side)	7 5.137 552
Concrete Resistivity	35.8 Horizontal	k-ohm-cm
.,	36.1 Vertical	
	Good condition with sound concrete, no cracks or	
General Condition	delamination. There is a layer of concrete which	
	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.		