

## PARK DEROCHIE (PD) INSPECTION AND TEST PLAN

		PD Job No.:	P-5759 Park Derochie Edmont		8			Ideal Wel								Code Legend
	35	Scope of Work:	Coating - Above Groun	on Shop		<del>-</del> 6)		T-South E	xpansion				S=	Surveillan	ce	N = Notify
		Comp. Station ID	U2901 CS5 - Australia	nd Oninsulated Pipe		<del></del> 0	Contract #		005.40				V =	Verify		l = Inspect W = Witness
	P	urchase Order # :	EH-10136-U2901-COA	TING		<del></del> 01		P-5759 -	US5 A2	-		-	DR=	Documen	review	
							Revision#		Harris and the second				H=	Hold		RI = Random Inspe
		t Specifications :	Enbridge (Solaris) Coa	tings Spec.#03350-31-220	00-SPC-0017; Park I	Derochie Quality Progra	ım; Manufad	cturer's Inst	ructions		The state of the s	AT AND SOME	•9	Lond	1 1	A
lo.		Item / Activity Description	Specification Section	Requirements Acceptance Criteria	Frequency of Testing	Verifying Documents or		Park Derochie		Ideal Welders		Enbridge			Notes / Details / Comment	
_	Activity			Acceptance Criteria	resting	Records	Code	Initial	Date(s)	Code	Initial	Date(s)	Code	Initial	Date	- Company Company
-					Servi	ce Category SC1, S	ystem A2 eneral	: Two Coa	it System						N M POR	
	Inspection and Test Plan (ITP) Approval	Verify review and approval of ITP	Park Derochie Quality practice	Client / Owner approval of ITP	Prior to commencement of work	Sign this ITP line item and " ITP Acceptance" area	H	D	2020-03-20	DR	MARO2	0 2020	DR	APPR		6 pm, Mar 24, 2020
	Annual	17-36 0				below					KI	2020		(By Suin	I I I I I I I I I I I I I I I I I I I	1
	Approved Construction Products	Verify coating Products	Enbridge (Solaris) Coatings Spec.#03350- 31-2200-SPC-0017, section 7, Table 2, Table 4	Carboline Products: Primer: Devran 201H; Topcoat: Devthane 379; Topcoat Colour: Eggshell White, FSC 17925	Prior to commencement of work	Sign this ITP line item	v	10	到发	DR	h	03/14/1	DR	AS o	3.26.7	0
The second second		Coating Inspection	Standard Practice; Enbridge (Solaris) Coatings Spec.#03350- 31-2200-SPC-0017, section 4.5, 4.5.10	Calibration Certificates; Calibration verified prior to use.	The calibration of all adjustable measuring instruments being used is verified a minimum of once per day.	Calibration Certificates; PD Form COQC 43.4 Coating Application Data Report	v	4	多金	DR	2	03/26/	<b>D</b> R	As	3.26.2	<b>D</b>
	Material Storage Review	Material storage conditions	Enbridge (Solaris) Coatings Spec.#03350- 31-2200-SPC-0017, section 5.3; Manufacturer's Instructions	Enclosed area out of direct sunlight; Store away from Ignition sources; Store in areas where temperature extremes will not be encountered	Prior to commencement of work	PD Form COQC 43.4 Coating Application Data Report	v	91	3/50	DR	h	3hale	RI	AS	8.26.20	Storage temps: 4°C-43°C
- 1			Park Derochie Quality practice	PD supervisor to review Product data		Sign this ITP line item	V DR	P.	Theho							PD Supervisor acknowledgement of Prod Data Review; Review scope of work with members.
	Delivered	of delivered	practice; Good Painting Practice	PD Supervisor to verify that delivered materials match those that are listed in Approved Products documents.	Prior to commencement of work	This ITP	٧ /	4	3/16/20	DR	W	03/26/	ZÓDR	AS	3.26.2	***************************************
	Traceability (1	Verify recording I of batch numbers I for material traceability	Practice		Prior to commencement of work	PD Form COQC 43.4 Coating Application Data Report	RI	92	3/20	DR	6	03/24/2	o DR	AS	.26.20	w <sub>a</sub>

10/2	San Paris	XEE KINCKES KA	SERVICE SERVIC	<b>美國的學習經濟和</b>	68年以外第二年的	Surface	Preparatio	n	的相似的特色的	运动物位	<b>西班拉州首都</b>	<b>建筑的</b>				
	Masking (Protection of Adjacent surfaces and equipment	Verify protection is in place to	Enbridge (Solaris) Coatings Spec.#03350- 31-2200-SPC-0017, section 7.4	All nameplates, sight glasses, lenses, etc. are to be properly masked / nearby structures/property is protected.	Prior to coating	This ITP	1	92	of spells	DR	h	03/14/2	DR		z.26. <sup>2</sup>	•
)	Inspection - Damaged Pipe	Verify Inspection of pipe for damage	Enbridge (Solaris) Coatings Spec.#03350- 31-2200-SPC-0017, section 7.4	Notify inspector if corroded or mechanically damged pipe is discovered	Ongoing	This ITP	l.	40	3/26/20	DR	2	63/24/2	DR DR	ASO	3.26.2	
	Initial Steel Surface Condition / Rough Welds / Burrs	Verify surface condition of pipe is suitable for coating application	Park Derochie Quality practice; Good Painting Practice	Initial Rust Condition Grade reviewed prior to Surface Preparation / notify client for repair of rough welds, burrs, slivers etc.	Prior to commencement of work	This ITP / PD Form COQC 35.0 Welds Inspection Report (if deficiencles area discovered)	1.	H	到	DR	2	03/24	& DR	AS	3. 26-II	
11	Steel Surface Cleaning	Verify surfaces for be coated are free of Oil or grease	Enbridge (Solaris) Coatings Spec.#03350- 31-2200-SPC-0017, section 7.4	Visual Inspection is free from oil or grease in accordance with SSPC- SP1	Prior to abrasive blasting	PD Form COQC 43.4 Coating Application Data Report	1	9-	3/1/2	DR	2	03/26/2	0 s	AS	3.24.2	Oil or grease removed in accordance with SSPC-SP 1.
12	Quality of Air From the Compressor	Verify Compressed Air is free from oil or water	Park Derochie Quality practice; Good Painting Practice	Perform Blotter Test; Stain-free Blotter Test paper	Minimum at start of project, or if required at equipment changes.	PD Form COQC 43.4 Coating Application Data Report	v	Ge	3/2	DR	n	03/4/	d DR	AS	.26.20	Visual inspection and test utilising BlotterTest Paper, as per ASTM D4285.
13	Environmental Conditions for surface preparation	Verify Ambient Temperature and Dew Point is within acceptable limits for abrasive blasting	31-2200-SPC-0017,	Must be at least 3°C(5°F) above dew point	Prior to abrasive blasting	PD Form COQC 43.4 Coating Application Data Report	V/H	12	3/4	w/s	2	03/4/2	W/S	AS	3.26.20	
4	Blast Cleaning of Substrate	Verify proper blast-cleaned surface - surface profile	Enbridge (Solaris) Coatings Spec.#03350- 31-2200-SPC-0017, section 7.2, Table 3; section 7.4	SSPC SP 10 with Anchor Profile of 1.0 – 3.0 mils		PD Form COQC 21.0 Anchor Profile Log	1	1	3/4	DR	2	63/29	26 v	AS	3.24.2	verify with Replica Tape as per ASTM D4417.
15	Visual Inspection / acceptance of Blast Cleaned Surfaces	Verify Proper Visual Surface Preparation	Standard Practice	SSPC SP 10 with Anchor Profile of 1.0 - 3.0 mils	Prior to commencement of coating application	PD Form COQC 43.4 Coating Application Data Report	H/I	a	3/2	V	n		<b>3</b> H/V	AS		All surfaces not meeting the specified anchor profile and/or cleanliness are to be rejected and re-blasted.
	造的特殊的	ASSESSMENT OF THE PARTY OF THE	<b>多面的是发生运动性的</b>	<b>国由中华社会社会中国公</b> 主	and the second	Coating	Application	n	是論論的意思	集的技术的	<b>单数都被答</b>			的其代表以的		Must be at least 3°C above dew
6	Environmental Conditions for Coating Application	Verify suitable Ambient Conditions prior to Mixing and Application of Coating	Enbridge (Solaris) Coatings Spec.#03350- 31-2200-SPC-0017, section 7.5	Minimum 3°C or 5°F Delta Point; and as per Manufacturers Product Data Sheets	Prior to application of coating.	PD Form COQC 43.4 Coating Application Data Report	7	1	3/2/	DR	1/2	03/30	ko v	As	3.22.2	point; Surface: 4°C-57°C; Ambient: 4°C-43°C Relative Humidity: ≤ 90%
	Mixing of Coating	Verify Proper mixing of coating products	Enbridge (Solaris) Coatings Spec.#03350- 31-2200-SPC-0017, section 7.5	mixed as per manufacturer's instructions	Per each Coating applied.	PD Form COQC 43.4 Coating Application Data Report	VII	4	They	DR	n	03/39	ÉORI	AS	3.27.2	Power mix separately, then combine and power mix.
18	Stripe coating	Install Stripe coat.	Park Derochie Quality practice; Good Painting Practice	Visual Inspection of Stripe Coat on all crevices, welds, bolts, and sharp edges etc.	May be applied after Primer coat	PD Form COQC 43.4 Coating Application Data Report	V/D	91	3/2/2	RI	n	03/30	Earl	AS	327.20	Stripe bolts, crevices, welds, an sharp edges.

T-SOUTH EXPLANSION (U2901)
(S5. LOAD#1 PIPING. Page 2 of 3

19	Application of Primer Coat / acceptance of applied primer	Verify proper prime coat application - Coating Thickness-DFT measurements	Enbridge (Solaris) Coatings Spec.#03350 31-2200-SPC-0017, section 7.2 (2019-Nov- 27) 7.3, Table 4; section 7.5, 7.6 See also: TSRE-9550046107-RFCS4A-0067, Revision 0		Ongoing WFT checks during application; ensure that four (4) WFT measurements are made around the substrate a minimum of one location every hour	Report	H/1/D	9i	3/26/20	, v	h	03/39/1	н/1	AS	3.30.2	Verify uniform film which is generally smooth, without drips, runs, sags or other discontinuities.  DFT measurements are to be hade (as per PA2) in the same approximate location as the WF readings, where practicable.	
20	Application of Topcoat	Verify proper tat application - Coating thickness-DFT measurements	Enbridge (Solaris) Coatings Spec.#03350- 31-2200-SPC-0017, section 7.2 (2019-Nov-27) 7.3, Table 4; section 7.5, 7.6 See also: TSRE-9550046107-RFI-CS4A-0067, Revision 0	Install Devthane 379 @ 2-3 mils DFT; Topcoat colour: Eggshell White, FSC 17925	Ongoing WFT checks during application; ensure that four (4) WFT measurements are made around the substrate a minimum of one location every hour	Report	H/I/D	H	03/2/2	V	4	03/39	<b>ко</b> н/1	AS	3.50.2	Verify uniform film which is generally smooth, without drips, runs, sags or other discontinuities. DFT measurements are to be hade (as per PA2) in the same approximate location as the WF readings, where practicable.	
21	Final Inspection and Acceptance	Verify acceptance of installed coating	Enbridge (Solaris) Coatings Spec.#03350- 31-2200-SPC-0017, section 7.	confirm coating is free from inclusions, excessive film build, runs, sags, cratering, mudoracking, wrinkiling, overspray, blistering, delamination or other unacceptable defects as specified.	Upon completion work area applicable to this ITP	PD Form COQC 43.4 Coating Application Data Report; This ITP signed-off below	MA V/D	R 28	<b>2020</b>	RI/DR	2	03/3	Y LA RI/DR	AS	.30.22	Visual inspection to confirm coating is free from inclusions, excessive film build, runs, sags, cratering, mudcracking, wrinkling, overspray, blistering, delamination or other unacceptable defects as specified.	
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Cli	ent Accepta		idge Ren Signature:	APPROVE By Jamie Fli	ED is at 1:06 pm, Mar	24, 2020		Q	Flis								
	Enbridge Rep. Signature:  Print  Signature  Signature												MAR 2 0 2020				
L				7500 - MILITAN - MILITANIA	Print '				W.	Signature							
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		Ideal Weld	er's Rep. Signature:	11:56 6	C'anal				1	Signature	1	-	<del>-</del>		03/	130/2000	
			370 5505 (25	1	Print			19	19	Signature	10	5	II	03/30/2020			
		Enbri	dge Rep. Signature:	MILLIN SI	Print			- Fil	la	Signature	we		*		<i>U</i> <u>3</u> .	30. 2020	
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