

CHICAGO REGION COMMITTEE ON UNDERGROUND CORROSION

TECHNICAL EXCHANGE GROUP 022X

October 17th, 2017 Meeting Minutes

The next scheduled meeting will be a joint NACE section and CRCUC business meeting. The meeting will start at 8:30 am on **Tuesday October 17th, 2017 and will be held at Tahoe room at the Harrah's Hotel and Casino located 151 N. Joliet Road, Joliet, IL 60432**

**WEBSITE IS UP AND RUNNING AT CRCUC.COM
You can now submit cases there.**

The October meeting agenda is as follows:

- 8:30 Networking Time, coffee and rolls served**
- 9:00 NACE Business Meeting**
- 9:30 CRCUC Business Meeting**
- 10:15 Break**
- 10:30 Presentation by TBD**

To maximize the benefits of attending, each representative is urged to send suggestions for topics of interest. Also if you know of a vendor that would like to demonstrate their products you can send me an e-mail with their information.

All CRCUC members are reminded to submit a completed "Case Form" to the Chairman for new cases to be presented to the committee. The "Case Form" should have all listed information filled to identify the area of concern for the parties involved. "Case Form" must be submitted electronically and with GPS.

In order to expedite the closing of "old" cases, members are encouraged to attend meetings and review cases in which they are interested parties or owners and coordinate the necessary testing. Members are also encouraged to communicate through e-mail their disposition to the interested parties if they choose to.

Chairman	Vice Chair	Secretary
Steve Padden CorrPro Companies Cell #: 773-350-3218 spadden@Corrpro.com	Lawrence Vanbogelen WE Energies Contact# (414) 587-5936 Lawrence.VanBogelen@we-energies.com	Phillip Zack Contact # 708-288-6809

CHICAGO REGION COMMITTEE ON UNDERGROUND CORROSION

*****Disclaimer*****

The CRCUC is a service created by and in service to the operators of underground facilities, for which Cathodic protection is required, in a communal effort for the betterment of public safety and to comply with

cfr192 and 195. This service in no way imparts any responsibility or liability on the part of the CRCUC or its supervising members for the proper operation, engineering, or construction of Cathodic protection equipment.

By agreeing to participate and utilize the CRCUC, all members are hereby accepting the bi-laws agreed upon and shall not hold the CRCUC liable for any damages done to their pipe-lines.

§192.473 External corrosion control: Interference currents.

(a) Each operator whose pipeline system is subjected to stray currents shall have in effect a continuing program to minimize the detrimental effects of such currents.

(b) Each impressed current type cathodic protection system or galvanic anode system must be designed and installed so as to minimize any adverse effects on existing adjacent underground metallic structures.

§195.577 What must I do to alleviate interference currents?

(a) For pipelines exposed to stray currents, you must have a program to identify, test for, and minimize the detrimental effects of such currents.

(b) You must design and install each impressed current or galvanic anode system to minimize any adverse effects on existing adjacent metallic structures.

Bi-Law: All cases will be removed from the active list after 2 years from being initially opened, unless they are being actively worked on.

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CHICAGO REGION COMMITTEE ON UNDERGROUND CORROSION

New Cases

<u>D-1-17 Marathon – Tim Blair</u>				<u>217-549-2253</u>	
Status	New Installation			Date	8-9-17
Rectifier	Revised Output				
Mutual Bond	Retired				
Location					
Coordinates	Qrtr Sct: NE, SE, NW, SW	T		R:	<u>N: 39.02293</u>
	<u>TWP:</u>	County:	Effingham	State: IL	<u>W: -88.4514</u>
Rectifier Output		Current: 4A		Voltage: 5	
Structure	Pipeline				
Description:	Deepwell				
Interested Parties:	Enbridge				
10-17-17	Case Opened				

<u>D-2-17 Marathon – Tim Blair</u>				<u>217-549-2253</u>	
Status	New Installation			Date	8-9-17
Rectifier	Revised Output				
Mutual Bond	Retired				
Location					
Coordinates	Qrtr Sct: NE, SE, NW, SW	T		R:	<u>N: 38.791</u>
	<u>TWP:</u>	County:	Marion	State: IL	<u>W: -89.081</u>
Rectifier Output		Current: 10.6A		Voltage: 13.4	
Structure	Tank Bottom				
Description:	Deepwell Groudbed				

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Interested Parties:	Enbridge, Buckeye
10-17-17	Case Opened

D-3-17 Marathon – Tim Blair 217-549-2253

Status	New Installation	Date	8-9-17
Rectifier	Revised Output		
Mutual Bond	Retired		
Location			
Coordinates	Qrtr Sct: NE, SE, NW, SW	I	R: <i>N: 39.325</i>
	TWP:	County: Clark	State: IL <i>W: -87.896</i>
Rectifier Output	Current: 20.9	Voltage: 26.4	
Structure	Tank Bottom		
Description:	Deepwell Groudbed		
Interested Parties:	Buckeye		
10-17-17	Case Opened		

D-4-17 Marathon – Tim Blair 217-549-2253

Status	New Installation	Date	8-9-17
Rectifier	Revised Output		
Mutual Bond	Retired		
Location			
Coordinates	Qrtr Sct: NE, SE, NW, SW	I	R: <i>N: 39.325</i>
	TWP:	County: Clark	State: IL <i>W: -87.896</i>

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Rectifier Output	<u>Current:</u> 14.8	<u>Voltage:</u> 17.2
Structure	Tank Bottom	
Description:	Deepwell Groudbed	
Interested Parties:	Buckeye	
10-17-17	Case Opened	

D-5-17 Marathon – Tim Blair **217-549-2253**

Status	New Installation	Date	10-2-17
Rectifier	Revised Output		
Mutual Bond	Retired		
Location			
Coordinates	<u>Qrtr Sct:</u> NE, SE, NW, SW	<u>T</u>	<u>R:</u> <i>N: 38.9976</i>
	<i><u>TWP:</u> Robinson</i>	<u>County:</u> Crawford	<u>State:</u> IL <i><u>W:</u> -87.71450</i>
Rectifier Output	<u>Current:</u> 8	<u>Voltage:</u> 5	
Structure	Pipeline		
Description:	Deepwell Groudbed		
Interested Parties:	Buckeye, Enbridge		
10-17-17	Case Opened		

D-6-17 Marathon – Tim Blair **217-549-2253**

Status	New Installation	Date	10-2-17
Rectifier	Revised Output		
Mutual Bond	Retired		
Location			
Coordinates	<u>Qrtr Sct:</u> NE, SE, NW, SW	<u>T</u>	<u>R:</u> <i>N: 38.94998</i>

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	<u>TWP:</u>	<u>County:</u> Jasper	<u>State:</u> IL	<u>W:</u> -88.28037
Rectifier Output		<u>Current:</u> 4.5	<u>Voltage:</u> 15	
Structure	Pipeline			
Description:	Deepwell Groudbed			
Interested Parties:	Enbridge			
10-17-17	Case Opened			

D-7-17 Marathon – Tim Blair 217-549-2253

Status	New Installation	Date	10-2-17	
Rectifier	Revised Output			
Mutual Bond	Retired			
Location				
Coordinates	<u>Qtr Sct:</u> NE, SE, NW, SW	<u>I</u>	<u>R:</u>	<u>N:</u> 38.733257
	<u>TWP:</u>	<u>County:</u> Lawrence	<u>State:</u> IL	<u>W:</u> -87.707458
Rectifier Output		<u>Current:</u> 8	<u>Voltage:</u> 13	
Structure	Pipeline			
Description:	Deepwell Groudbed			
Interested Parties:	Buckeye, Enbridge			
10-17-17	Case Opened			

D-8-17 Nipsco – Kyle Schiller 219-299-4813

Status	New Installation	Date	10-17-17	
Rectifier	Revised Output			
Mutual Bond	Retired			
Location				

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Coordinates	Qrtr Sct: NE, SE, NW, SW	T		R:	N: 41.551596
	TWP: Munster	County: Lake		State: IN	W: -87.508821
Rectifier Output		Current: 4	Voltage: 7.5		
Structure	Pipeline				
Description:	Deepwell Groudbed Southeast Corner of Calumet Avenue and Fisher Street				
Interested Parties:	BP, Wolverine, Kinder Morgan, Buckeye				
10-17-17	Case Opened				

Old Cases

<u>C-1-17 Kinder Morgan – Tim Gubbins</u>						<u>815-922-2792</u>	
Status	New Installation			Date	7-18-16		
Rectifier	Revised Output						
Mutual Bond	Retired						
Location							
Coordinates	Qrtr Sct: NE, SE, NW, SW	T		R:	N: 41.564939		
	TWP: Lansing	County: Cook		State: IL	W: -87.568390		
Rectifier Output		Current: 3.2A	Voltage: 6.7				
Structure							
Description:	Anode Flex 1500 running on the Westside of Kinder Morgan's furthest West Natural Gas Line						
Interested Parties:	BP, Nicor, ComEd,						
7-18-17	Case Opened						
10-17-17	Leave open for all Parties						

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<u>C-2-17 Kinder Morgan – Tim Gubbins</u>				<u>815-922-2792</u>	
Status Rectifier Mutual Bond	Revised Output	Date	7-18-16		
Location					
Coordinates	Qrtr Sct: NE, SE, NW, SW	T		R:	N: 41. 49249268
	TWP: <i>New Lennox</i>	County: Will	State: IL	W: -	88. 00386047
Rectifier Output	Current: 13A	Voltage: 18			
Structure					
Description:					
Interested Parties:	Peoples Gas, Vector, BP, Nicor, Enbridge, Wolverine, ExxonMobil, northern Boarder				
7-18-17	Case Opened				
10-17-17	Wolverine, Peoples Gas are satisfied. Leave open for remaining parties				

<u>C-3-17 Kinder Morgan – Tim Gubbins</u>				<u>815-922-2792</u>	
Status Rectifier Mutual Bond	Revised Output	Date	7-18-16		
Location					
Coordinates	Qrtr Sct: NE, SE, NW, SW	T		R:	N: 41. 44866532
	TWP: <i>Channahon</i>	County: Will	State: IL	W: -	88. 19104004

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Rectifier Output	Current: 5A	Voltage: 38
Structure		
Description:		
Interested Parties:	Nicor, Enbridge, BP, Peoples Gas, northern Boarder	
7-18-17	Case Opened	
10-17-17	Peoples Gas is satisfied. Leave open for remaining parties.	

C-4-17 Kinder Morgan – Tim Gubbins 815-922-2792

Status	Revised Output	Date	7-18-16
Rectifier Mutual Bond			
Location			
Coordinates	Qrtr Sct: NE, SE, NW, SW	I	R: <i>N: 41.44875336</i>
	TWP: <i>Channahon</i>	County: Will	State: IL <i>W: - 88.22580719</i>
Rectifier Output	Current: 12A	Voltage: 17	
Structure			
Description:			
Interested Parties:	Enbridge, Nicor, ComEd, northern Boarder		
7-18-17	Case Opened		
10-17-17	Leave open for all parties		

C-5-17 Nicor – Mike Hancock 630-514-5105

Status	New Installation	Date	7-18-17
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Rectifier Mutual Bond	Revised Output Retired				
Location	Station 110				
Coordinates	Qrtr Sct: NE, SE, NW, SW	T:		R:	N: 41.26147
	TWP: Coal city	County: Grundy		State: IL	W: -88.32222
Rectifier Output		Current: 4A		Voltage: 5V	
Structure	Station Piping				
Description:					
Interested Parties:	Enbridge, BP				
7-18-17	Case Opened, Interruption will be set for 1 week Starting July 31st				
10-17-17	Leave open for both parties				

<u>C-5-17 Nicor – Mike Hancock</u>			<u>630-514-5105</u>		
Status Rectifier Mutual Bond	New Installation Revised Output Retired			Date	7-18-17
Location	Station 97 S/W Corner E 1600 rd W N 2500Rd E				
Coordinates	Qrtr Sct: NE, SE, NW, SW	T:		R:	N: 40.86109
	TWP: Pontiac	County:		State: IL	W: -88.45192
Rectifier Output		Current: 3A		Voltage: TBD	
Structure	Station Piping				
Description:					
Interested Parties:	Enbridge, Kinder Morgan,				
7-18-17	Case Opened, Not energized yet. Getting power on 7-20. Interruption will be set for 1 week Starting July 31st				
10-17-17	Kinder Morgan Satisfied. Leave open for Enbridge				

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B-1-17 Dakota Access– Matt Stack 701-580-8718

Status Rectifier Mutual Bond	New Installation	Date	4-18-17
Location	PA-60		
Coordinates	Qrtr Sct: NE, SE, NW, SW	T	R: N: 38.688565372
	TWP: Salem	County: Marion	State: IL W: -88.8647534
Rectifier Output	Current: 2	Voltage: 2.7	
Comments			
Structure	New 30" Dakota Access Pipeline from Williston, ND to Patoka, IL		
Description:	1 - 12" diameter 350' deep groundbed		
Interested Parties:	Enbridge(Spectra)		
4-18-17	Case Opened		
7-18-17	Leave open, currents still being adjusted		

B-2-17 Dakota Access– Matt Stack 701-580-8718

Status Rectifier Mutual Bond	New Installation	Date	4-18-17
Location	IL-350		
Coordinates	Qrtr Sct: NE, SE, NW, SW	T	R: N: 38.881671426
	TWP:	County:	State: IL W: -89.193351513
Rectifier Output	Current: 5.63	Voltage: 3.72	
Comments			

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Structure	New 30" Dakota Access Pipeline from Williston, ND to Patoka, IL
Description:	1 - 12" diameter 350' deep groundbed
Interested Parties:	Enbridge(Spectra)
4-18-17	Case Opened
7-18-17	Output updated

B-3-17 Dakota Access– Matt Stack **701-580-8718**

Status Rectifier Mutual Bond	New Installation	Date	4-18-17
Location	IL-300		
Coordinates	Qrtr Sct: NE, SE, NW, SW	T	R: N: 39.042756452
	TWP:	County:	State: IL W: -89.4828893
Rectifier Output	Current: 4	Voltage: 4	
Comments			
Structure	New 30" Dakota Access Pipeline from Williston, ND to Patoka, IL		
Description:	1 - 12" diameter 350' deep groundbed		
Interested Parties:	Enbridge(Spectra)		
4-18-17	Case Opened		
7-18-17	Output updated		

B-4-17 Dakota Access– Matt Stack **701-580-8718**

Status Rectifier Mutual Bond	New Installation	Date	4-18-17
Location	IL-245		

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Coordinates	<u>Qrtr Sct:</u> NE, SE, <u>I</u> NW, SW		<u>R:</u>	<u>N:</u> 39.234377474
	<u>TWP:</u>	<u>County:</u>	<u>State:</u> IL	<u>W:</u> -89.7701182
Rectifier Output		<u>Current:</u> 4.68	<u>Voltage:</u> 5.97	
Comments	Expected to be turned on in early May			
Structure	New 30" Dakota Access Pipeline from Williston, ND to Patoka, IL			
Description:	1 - 12" diameter 350' deep groundbed			
Interested Parties:	Enbridge(Spectra)			
4-18-17	Case Opened			
7-18-17	Output updated			

B-5-17 Dakota Access– Matt Stack 701-580-8718

Status	New Installation	Date	4-18-17	
Rectifier				
Mutual Bond				
Location	IL-200			
Coordinates	<u>Qrtr Sct:</u> NE, SE, <u>I</u> NW, SW		<u>R:</u>	<u>N:</u> 39.455877665
	<u>TWP:</u>	<u>County:</u>	<u>State:</u> IL	<u>W:</u> -90.0046042
Rectifier Output		<u>Current:</u> 7.33	<u>Voltage:</u> 5.68	
Comments	Expected to be turned on in early May			
Structure	New 30" Dakota Access Pipeline from Williston, ND to Patoka, IL			
Description:	1 - 12" diameter 350' deep groundbed			
Interested Parties:	Enbridge(Spectra)			
4-18-17	Case Opened			
7-18-17	Output updated			

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<u>B-6-17 Dakota Access– Matt Stack</u>				<u>701-580-8718</u>	
Status Rectifier Mutual Bond	New Installation		Date	4-18-17	
Location	IL-160				
Coordinates	Qrtr Sct: NE, SE, NW, SW	T	R:	N: 39.622374418	
	TWP:	County:	State: IL	W: --90.274679	
Rectifier Output	Current: 4.67		Voltage: 5.78		
Comments	Expected to be turned on in early May				
Structure	New 30" Dakota Access Pipeline from Williston, ND to Patoka, IL				
Description:	1 - 12" diameter 350' deep groundbed				
Interested Parties:	Enbridge(Spectra)				
4-18-17	Case Opened				
7-18-17	Output updated				

<u>B-7-17 Dakota Access– Matt Stack</u>				<u>701-580-8718</u>	
Status Rectifier Mutual Bond	New Installation		Date	4-18-17	
Location	IL-110				
Coordinates	Qrtr Sct: NE, SE, NW, SW	T	R:	N: 39.772338457	
	TWP:	County:	State: IL	W: -90.5291392	
Rectifier Output	Current: 4.9		Voltage: 11.47		
Comments	Expected to be turned on in early May				
Structure	New 30" Dakota Access Pipeline from Williston, ND to Patoka, IL				
Description:	1 - 12" diameter 350' deep groundbed				

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Interested Parties:	Enbridge(Spectra), Nicor
4-18-17	Case Opened
7-18-17	Output updated

B-8-17 Dakota Access– Matt Stack 701-580-8718

Status Rectifier Mutual Bond	New Installation	Date	4-18-17
Location	IL-85		
Coordinates	Qrtr Sct: NE, SE, NW, SW	I	R: N: 39.94972311
	TWP:	County:	State: IL W: -90.7327427
Rectifier Output	Current: 6.34	Voltage: 9.61	
Comments	Expected to be turned on in early May		
Structure	New 30" Dakota Access Pipeline from Williston, ND to Patoka, IL		
Description:	1 - 12" diameter 350' deep groundbed		
Interested Parties:	Enbridge(Spectra), Nicor		
4-18-17	Case Opened		
7-18-17	Output updated		

B-9-17 Dakota Access– Matt Stack 701-580-8718

Status Rectifier Mutual Bond	New Installation	Date	4-18-17
Location	IL-70		
Coordinates	Qrtr Sct: NE, SE, NW, SW	I	R: N: 40.172873144

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	<u>TWP:</u>	<u>County:</u>	<u>State:</u> IL	<u>W:</u> --90.946339
Rectifier Output		<u>Current:</u> 4.98	<u>Voltage:</u> 13.08	
Comments	Expected to be turned on in early May			
Structure	New 30" Dakota Access Pipeline from Williston, ND to Patoka, IL			
Description:	1 - 12" diameter 350' deep groundbed			
Interested Parties:	Enbridge(Spectra), Nicor			
4-18-17	Case Opened			
7-18-17	Output updated			

B-10-17 Dakota Access– Matt Stack **701-580-8718**

Status	New Installation		Date	4-18-17
Rectifier Mutual Bond				
Location	IL-25			
Coordinates	<u>Qrtr Sct:</u> NE, SE, NW, SW	<u>T</u>	<u>R:</u>	<u>N:</u> 40.439939°
	<u>TWP:</u>	<u>County:</u>	<u>State:</u> IL	<u>W:</u> -91.272409°
Rectifier Output		<u>Current:</u> 4.95	<u>Voltage:</u> 13.27	
Comments	Expected to be turned on in early May			
Structure	New 30" Dakota Access Pipeline from Williston, ND to Patoka, IL			
Description:	1 - 12" diameter 350' deep groundbed			
Interested Parties:	Enbridge(Spectra), Nicor			
4-18-17	Case Opened			
7-18-17	Output updated			

B-11-17 West Shore - Jeff Gabriel **219-688-1238**

CHICAGO REGION COMMITTEE ON UNDERGROUND CORROSION

Status Rectifier Mutual Bond	New Installation	Date	4-18-17
Location	6911 20th St		
Coordinates	Qrtr Sct: NE, SE, NW, SW	T	R: N: 42.919770°
	TWP: Oak Creek	County: Milwaukee	State: WI W: -87.941754°
Rectifier Output	Current: 5	Voltage: 10	
Comments			
Structure			
Description:			
Interested Parties:	WE Energies		
4-18-17	Case Opened		
7-18-17	Keep open for WE Energies		
10-17-17	Keep open for WE Energies		

A-1-17 Nipsco – Kyle

219-299-4813

Status Rectifier Mutual Bond	New Installation Revised Output Retired	Date	11-28-16
Location	North of Boy Scout Dr./ West of Sheffield Avenue		
Coordinates	Qrtr Sct: NE, SE, NW, SW	T	R: N: 41.65011
	TWP: Hammond	County: Lake	State: IN W: -87.51608
Rectifier Output	Current: 14.3	Voltage: 57.5V	
Comments	Rectifier output before revision 23.5 V 5.4 A		
Structure			
Description:	Deepwell		

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Interested Parties:	Praxair, Buckeye, BP, Wolverine
1-10-17	Case Opened
4-18-17	Leaving open for review
7-18-17	Wolverine is satisfied, Add Praxair, Buckeye, BP
10-16-17	BP Satisfied. Leave open for Praxair and buckeye

A-2-17 Nipsco – Kyle

219-299-4813

Status	New Installation	Date	11-28-16
Rectifier	Revised Output		
Mutual Bond	Retired		
Location	West of Wisconsin Street/ South of 61st Avenue		
Coordinates	Qrtr Sct: NE, SE, NW, SW	I	R:
	TWP: Hobart	County: Lake	State: IN
			N: 41.51031
			W: - 87.27008
Rectifier Output	Current: 5.7	Voltage: 22.3V	
Comments	Previous output before revision: 14.6 V 3.23 A		
Structure			
Description:	Deepwell		
Interested Parties:	Enbridge, Wolverine, Buckeye, Crossroads		
1-10-17	Case Opened		
4-18-17	Enbridge satisfied. Leaving open for remaining parties		
7-18-17	Wolverine is satisfied, Leave open for Buckeye and Crossroads		
10-17-17	Leave open for Buckeye and Crossroads		

A-3-17 BP – Dave Hewitt

708-774-7725

Status	New Installation	Date	1-5-17
Rectifier	Revised Output		
Mutual Bond	Retired		
Location	BP Griffith Jct. (ROW W. of Kennedy Ave.)		

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Coordinates	Qrtr Sct: NE, SE, NW, SW	T:		R:	N: 41.514994
	TWP: Schererville	County: Lake		State: IN	W: -87.465251
Rectifier Output		Current: 4.1A	Voltage: 9.9V		
Structure	Griffith - Whiting 22" crude pipeline				
Description:	Distributed Groundbed, Rectifier commissioned 12/20/2016, bond box (negative lead to rectifier) located on N. side of BP Griffith Jct. fencing				
Interested Parties:	Marathon, Nipsco				
1-10-17	Case Opened				
4-18-17	Leaving open for Marathon, Nipsco is satisfied.				
7-18-17	Wolverine is satisfied. Leave open for Marathon				
10-17-18	Leave open for Marathon				

A-4-17 Nicor – Mike Hancock

630-514-5105

Status	New Installation	Date	1-10-17		
Rectifier	Revised Output				
Mutual Bond	Retired				
Location	Station 210				
Coordinates	Qrtr Sct: NE, SE, NW, SW	T:		R:	N: 41.41554
	TWP: Morris	County: Grundy		State: IL	W: -88.30867
Rectifier Output		Current: 7A	Voltage: 10V		
Structure	Pipeline				
Description:	Distributed Groundbed				
Interested Parties:	Kinder Morgan				
1-11-17	Case Opened				
4-18-17	Adding Kinder Morgan				
7-18-17	Leave open for Kinder Morgan				

CHICAGO REGION COMMITTEE ON UNDERGROUND CORROSION

10-17-17	Kinder Morgan is satisfied. Case Closed
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A-5-17 Nicor – Mike Hancock **630-514-5105**

Status	New Installation	Date	1-10-17
Rectifier	Revised Output		
Mutual Bond	Retired		
Location	Station 269		
Coordinates	Qrtr Sct: NE, SE, NW, SW	T:	R:
			N: 41.40475
	TWP: Morris	County: Grundy	State: IL
			W: -88.29794
Rectifier Output	Current: 3.4A	Voltage: 17V	
Structure	Pipeline		
Description:	Distributed Groundbed		
Interested Parties:	Northern Border, Kinder Morgan		
1-11-17	Case Opened		
4-18-17	Adding Kinder Morgan, Northern Border		
7-18-17	Leave open for all parties		
10-17-17	Kinder Morgan Satisfied. Leave open for Northern Boarder		

A-7-17 Enbridge – Jim Peiguss **219-670-1964**

Status	New Installation	Date	1-16-17
Rectifier	Revised Output		
Mutual Bond	Retired		
Location	1100 ft south of US 8 2 miles west of Ladysmith		
Coordinates	Qrtr Sct: NE, SE, NW, SW	T:	R:
			N: 45.461603
	TWP: Ladysmith	County: Rusk	State: WI
			W: -91.147470

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Rectifier Output	Current: 12.2A	Voltage: 43.3V
Structure	Lines 6A/14/13/61	
Description:	Distributed Groundbed	
Interested Parties:	We Energies	
1-16-17	Case Opened	
4-18-17	Adding We Energies	
7-18-17	Leave open for We Energies	
10-17-17	Leave open for WE Energies	

A-8-17 Enbridge – Jim Peiguss **219-670-1964**

Status	New Installation	Date	1-16-17
Rectifier	Revised Output		
Mutual Bond	Retired		
Location	Eddy Rd 1 mi east of CR D 3 mi south of Owen		
Coordinates	Qtr Sct: NE, SE, NW, SW	T:	R:
			N: 44.915616
	TWP: Owen	County: Clark	State: WI
			W: -90.534280
Rectifier Output	Current: 24.9A	Voltage: 42.9V	
Structure	Lines 6A/14/13/61		
Description:	Distributed Groundbed		
Interested Parties:	We Energies		
1-16-17	Case Opened		
4-18-17	Adding We Energies		
7-18-17	Leave open for We Energies		
10-17-17	Leave open for We Energies		

A-9-17 Enbridge – Jim Peiguss **219-670-1964**

CHICAGO REGION COMMITTEE ON UNDERGROUND CORROSION

Status Rectifier Mutual Bond	New Installation Revised Output Retired	Date	1-16-17
Location	South Washington Ave, 1/2 mile north of CR EE 6 mi south of Marshfield		
Coordinates	Qrtr Sct: NE, SE, NW, SW	T:	R:
	N: 44.590877		
	TWP: Marshfield	County: Wood	State: WI
			W: -90.162815
Rectifier Output	Current: 23.5A	Voltage: 49V	
Structure	Lines 6A/14/13/61		
Description:	Distributed Groundbed		
Interested Parties:	We Energies, Koch.		
1-16-17	Case Opened		
4-18-17	Adding We Energies		
7-18-17	Leave open for We Energies, Add Koch as an interested Party.		
10-17-17	Leave open for We Energies and Koch		

A-10-17 Enbridge – Jim Peiguss 219-670-1964

Status Rectifier Mutual Bond	New Installation Revised Output Retired	Date	1-16-17
Location	Alpine Dr 1 mile west of SH 13		
Coordinates	Qrtr Sct: NE, SE, NW, SW	T:	R:
	N: 44.220475		
	TWP: Nekoosa	County: Adams	State: WI
			W: -89.830273
Rectifier Output	Current: 3.9A	Voltage: 17V	
Structure	Lines 6A/14/13/61		
Description:	Deepwell groundbed. Old groundbed ran at 0.1 A 85.0 V		

CHICAGO REGION COMMITTEE ON UNDERGROUND CORROSION

Interested Parties:	We Energies
1-16-17	Case Opened
4-18-17	Adding We Energies
7-18-17	Leave open for We Energies
10-17-17	Leave open for We Energies

A-11-17 Enbridge – Jim Peiguss 219-670-1964

Status	New Installation	Date	1-16-17
Rectifier	Revised Output		
Mutual Bond	Retired		
Location	State Route 59 1mi SW of N County Line Rd		
Coordinates	Qrtr Sct: NE, SE, NW, SW	T:	R:
			N: 42.798627
	TWP: Whitewater	County: Rock	State: WI
			W: -88.799833
Rectifier Output	Current: From 5.9 A to 21.7 A	Voltage:	From 13.4 V to 31.9 V
Structure	Lines 6A/14/13/61		
Description:			
Interested Parties:	We Energies		
1-16-17	Case Opened		
4-18-17	Adding We Energies		
7-18-17	Leave open for We Energies		
10-17-17	Leave open for We Energies		

A-13-17 Enbridge – Jim Peiguss 219-670-1964

Status	New Installation	Date	1-16-17
Rectifier	Revised Output		
Mutual Bond	Retired		

CHICAGO REGION COMMITTEE ON UNDERGROUND CORROSION

Location	McGirr Rd 3.5 miles north of Waterman			
Coordinates	Qrtr Sct: NE, SE, NW, SW	T:	R:	N: <i>41.817713</i>
	TWP: waterman	County: dekalb	State: IL	W: -88.795615
Rectifier Output	Current: 2.3A		Voltage: 5.6V	
Structure	Lines 13/61			
Description:	Distributed Groundbed			
Interested Parties:	Nicor, Kinder Morgan			
1-16-17	Case Opened			
4-18-17	Adding Nicor, Kinder Morgan			
7-18-17	Kinder Morgan Satisfied, Leave open for Nicor			
10-17-17	Leave open for Nicor			

A-14-17 Enbridge – Jim Peiguss

219-670-1964

Status	New Installation	Date	1-16-17	
Rectifier	Revised Output			
Mutual Bond	Retired			
Location	N 3450th Rd 2 miles east of Wedron IL			
Coordinates	Qrtr Sct: NE, SE, NW, SW	T:	R:	N: <i>41.433960</i>
	TWP: wedron	County: Lasalle	State: IL	W: -88.732146
Rectifier Output	Current: 13.4A		Voltage: 10.1V	
Structure	Lines 13/61			
Description:	Distributed Groundbed			
Interested Parties:	Nicor, Kinder Morgan, Northern Boarder			
1-16-17	Case Opened			
4-18-17	Adding Nicor, Kinder Morgan, and Northern Boarder			

CHICAGO REGION COMMITTEE ON UNDERGROUND CORROSION

7-18-17	Leave open for all parties
10-17-17	Kinder Morgan Satisfied. Leave open for Nicor and Northern Boarder

<u>D-1-16 Citgo - Wally Nowak</u>					<u>219-746-3357</u>				
Status	New Installation				Date	10-10-16			
Rectifier	Revised Output								
Mutual Bond	Retired								
Location	Citgo Terminal on Chicago/Cline Ave Rectifier #23								
Coordinates	<u>Qtr Sct:</u> NE, SE, NW, SW	<u>T:</u> 38N		<u>R:</u> 10E3	<u>N:</u> 41.63326846				
	<u>TWP:</u>	<u>County:</u> Lake		<u>State:</u> IN	<u>W:</u> -87.46656362				
Rectifier Output		<u>Current:</u> 35A		<u>Voltage:</u> 50V					
Structure	Citgo 12" and 6" Product Pipelines								
Description:	Adjusted groundbed								
Interested Parties:	Buckeye, Westshore, BP, Expr, Marathon ,Oneok, Praxair, Wolverine. Nipsco								
10-18-16	Case Opened								
4-18-17	Nipsco Satisfied								
7-18-17	Wolverine & Praxair satisfied, Leave open for Remaining parties								
10-17-17	Leave open for remaining parties								

<u>D-2-16 BP – Dave Hewitt</u>					<u>708-774-7725</u>				
Status	New Installation				Date	10-10-16			
Rectifier	Revised Output								
Mutual Bond	Retired								
Location	18401 South Wolf Road								
Coordinates	<u>Qtr Sct:</u> NE, SE, NW, SW	<u>T:</u>		<u>R:</u>	<u>N:</u> 41.556533				
	<u>TWP:</u> Mokena / Frankfort	<u>County:</u> Will		<u>State:</u> IL	<u>W:</u> -87.884912				

CHICAGO REGION COMMITTEE ON UNDERGROUND CORROSION

Rectifier Output	Current: 4.1A	Voltage: 9.9V
Structure	Chicap 14" Blue Island Lateral	
Description:	Rectifier/ground bed was originally located inside BP/Chicap Mokena Station @ SE corner of manifold. CP system was decommissioned and rectifier relocated to new ground bed location @ NE corner of Chicap Mokena Station property	
Interested Parties:	Exxon-Mobil, Enbridge, Nicor, ATT	
10-18-16	Case Opened	
4-18-17	Enbridge, Nicor satisfied, Leave open for Exxon and ATT	
7-18-17	Add Kinder Morgan. Leave open for remaining parties	
10-17-17	Kinder morgan Satisfied. Leave open for Exxon and ATT	

D-3-16 Nipsco – Kyle

219-299-4813

Status	New Installation	Date	10-10-16
Rectifier	Revised Output		
Mutual Bond	Retired		
Location	115-ft south of Johnson RD and 270-ft west of CR 400		
Coordinates	Qtr Sct: NE, SE, NW, SW	T	R:
			N: 41.64184
	TWP:	County: La Porte	State: IN
			W: -86.7783
Rectifier Output	Current: 9.5	Voltage: 9	
Structure			
Description:	Deepwell		
Interested Parties:	Enbridge, BP, Wolverine, Buckeye, Vector		
10-18-16	Case Opened		
1-10-17	Updated Rectifier Ouput from 3amps to 9.5		
4-18-17	Enbridge & Vector is satisfied, leave open for remaining parties		
7-18-17	Wolverine Satisfied, Leave open for Buckeye & BP		
10-17-17	Leave open for Buckeye and BP		

CHICAGO REGION COMMITTEE ON UNDERGROUND CORROSION

D-4-16 Kinder Morgan – John Kessler III 815-482-6136

Status	New Installation	Date	10-13-16
Rectifier	Revised Output		
Mutual Bond	Retired		
Location	Tripp rd		
Coordinates	Qtr Sct: NE, SE, NW, SW	I	R: <i>N: 42.222433</i>
	TWP: Flora	County: Boone	State: IL <i>W: -88.826968</i>
Rectifier Output	Current: 15A	Voltage: 15V	
Structure	Belvidere Lateral		
Description:	Distributed Groundbed		
Interested Parties:	Nicor, ATT		
10-18-16	Case Opened, Anticipating to energize in late october		
4-18-17	Energized with 15V 15A, Nicor is satisfied. Leave open for ATT		
7-18-17	Leave open for ATT		
10-17-17	Leave open for ATT		

D-5-16 Kinder Morgan – John Kessler III 815-482-6136

Status	New Installation	Date	10-13-16
Rectifier	Revised Output		
Mutual Bond	Retired		
Location	Houbolt		
Coordinates	Qtr Sct: NE, SE, NW, SW	I	R: <i>N: 41.507239</i>
	TWP: Troy Township	County: Will	State: IL <i>W: -88.177981</i>
Rectifier Output	Current: 7A	Voltage: 10V	

CHICAGO REGION COMMITTEE ON UNDERGROUND CORROSION

Structure	Amarillo pipeline
Description:	
Interested Parties:	Nicor
10-18-16	Case Opened, Anticipating to energize in late october
4-18-17	Not energized yet
7-18-17	Energized, has Remote interruption. Updated Output.
10-17-17	Leave open for Nicor

D-6-16 Kinder Morgan – John Kessler III **815-482-6136**

Status	New Installation	Date	10-13-16
Rectifier	Revised Output		
Mutual Bond	Retired		
Location	Forest Trail		
Coordinates	Qrtr Sct: NE, SE, NW, SW	I	R: <u>N: 42.204075</u>
	<u>TWP:</u> <i>Cherry Valle</i>	<u>County:</u> Winnebago	<u>State:</u> IL <u>W: -89.014479</u>
Rectifier Output	Current: 22	Voltage: 25	
Structure	Rockford Lateral pipeline		
Description:			
Interested Parties:	Nicor		
10-18-16	Case Opened, Anticipating to energize in late october		
4-18-17	Updated with 22A 25V, leave open for nicor		
7-18-17	Leave open for Nicor		
10-17-17	Leave open for Nicor		

D-7-16 Kinder Morgan – John Kessler III **815-482-6136**

CHICAGO REGION COMMITTEE ON UNDERGROUND CORROSION

Status Rectifier Mutual Bond	New Installation Revised Output Retired	Date	10-13-16
Location	Petterson Rd		
Coordinates	Qrtr Sct: NE, SE, NW, SW	T	R: <i>N: 42.305728</i>
	TWP: <i>Fremont</i>	County: Lake	State: IL <i>W: -88.013871</i>
Rectifier Output	Current: 12A	Voltage: 32V	
Structure	Rockford Lateral pipeline		
Description:	Deepwell		
Interested Parties:	Westshore, Northshore Gas, ATT,		
10-18-16	Case Opened		
4-18-17	Leave open for all parties		
7-18-17	Leave open for all parties		
10-17-17	Leave open for all parties		

D-8-16 Kinder Morgan – John Kessler III 815-482-6136

Status Rectifier Mutual Bond	New Installation Revised Output Retired	Date	10-13-16
Location	RTE 64		
Coordinates	Qrtr Sct: NE, SE, NW, SW	T	R: <i>N: 42.001450</i>
	TWP: <i>South Grove</i>	County: Dekalb	State: IL <i>W: -88.839173</i>
Rectifier Output	Current: 27	Voltage: 28	
Structure	Sycamore Laterals pipeline		
Description:	Distributed		

CHICAGO REGION COMMITTEE ON UNDERGROUND CORROSION

Interested Parties:	Nicor, Westshore, Enbridge
10-18-16	Case Opened, Anticipating to energize in late october
4-18-17	Energized with 27A 28V, Adding Enbridge. Nicor satisfied. Leave open for all parties
7-18-17	Leave open for enbridge and West Shore
10-17-17	Leave open for enbridge and West Shore

D-10-16 Kinder Morgan – John Kessler III **815-482-6136**

Status Rectifier Mutual Bond	New Installation Revised Output Retired	Date	10-13-16
Location	RTE 31		
Coordinates	Qrtr Sct: NE, SE, NW, SW	I	R: <i><u>N: 42.316613</u></i>
	TWP: <i><u>Nunda</u></i>	County: McHenry	State: IL <i><u>W: -88.276466</u></i>
Rectifier Output	Current: 9A	Voltage: 26V	
Structure	North Chicago Lateral pipeline		
Description:	Deepwell		
Interested Parties:	Nicor, ATT		
10-18-16	Case Opened		
4-18-17	Leave open for all parties		
7-18-17	Leave open for all parties		
10-17-17	Leave open for all parties		

D-11-16 Kinder Morgan – Tim Gubbins **815-922-2792**

Status Rectifier	New Installation Revised Output	Date	10-17-16
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CHICAGO REGION COMMITTEE ON UNDERGROUND CORROSION

Mutual Bond	Retired			
Location	RTE 6			
Coordinates	Qrtr Sct: NE, SE, NW, SW	T		R: <i>N: 41.495049</i>
	<i><u>TWP: Rockdale</u></i>	County: Will	State: IL	<i><u>W: -88.132233</u></i>
Rectifier Output		Current: 9A	Voltage: 8	
Structure				
Description:	Replaced existing ground bed with Anode Flex 1500			
Interested Parties:	Nicor, ATT, Enbridge,			
10-18-16	Case Opened			
4-18-17	Nicor is satisfied, leave open for remaining parties			
7-18-17	Enbridge satisfied. Leave open for remaining parties			
10-17-17	Leave open for ATT			

<i><u>D-12-16 Kinder Morgan – Tim Gubbins</u></i>		<i><u>815-922-2792</u></i>		
Status	New Installation	Date	10-17-16	
Rectifier	Revised Output			
Mutual Bond	Retired			
Location	Mound Rd			
Coordinates	Qrtr Sct: NE, SE, NW, SW	T		R: <i>N: 41.500818</i>
	<i><u>TWP: Rockdale</u></i>	County: Will	State: IL	<i><u>W: -88.129615</u></i>
Rectifier Output		Current: 3A	Voltage: 13	
Structure				
Description:	Replaced existing ground bed with Anode Flex 3200			
Interested Parties:	Nicor, ATT, Enbridge,			

CHICAGO REGION COMMITTEE ON UNDERGROUND CORROSION

10-18-16	Case Opened
4-18-17	Leave open for all parties
7-18-17	Enbridge satisfied. Leave open for Nicor and ATT
10-17-17	Leave open for Nicor and ATT

C-1-16 Citgo - Wally Nowak

219-746-3357

Status	New Installation	Date	7-18-16
Rectifier	Revised Output		
Mutual Bond	Retired		
Location	Citgo Terminal on Chicago/Cline Ave Rectifier #24		
Coordinates	Qtr Sct: NE, SE, NW, SW	T: 38N	R: 10E3 N: 41.63326846
	TWP:	County: Lake	State: IN W: -87.46656361
Rectifier Output	Current: 27A	Voltage: 35V	
Structure	Citgo 12" and 6" Product Pipelines		
Description:	Adjusted groundbed		
Interested Parties:	Buckeye, West shore, BP, Expr, Mar. nipsco, Onek, Praxair & Wolv.		
7-19-16	Case Opened		
10-18-16	Wolverine Is satisfied, leave open for remaining parties		
4-18-17	Nipsco is satisfied, Leave open for remaining parties		
7-18-17	Praxair satisfied. Leave open for remaining parties		
10-17-17	Leave open for remaining parties		

C-3-16 West Shore - Jeff Gabriel

219-688-1238

Status	New Installation	Date	7-13-16
Rectifier	Revised Output		
Mutual Bond	Retired		

CHICAGO REGION COMMITTEE ON UNDERGROUND CORROSION

Location	Lagrange Rd, in Willow Springs, IL			
Coordinates	Qtr Sct: NE, SE, NW, SW	T:	R:	N: 41.748585
	TWP:	County: Cook	State: IL	W: -87.857656
Rectifier Output	Current: 5A		Voltage: 15V	
Structure				
Description:	Deepwell Groundbed			
Interested Parties:	Buckeye, BP, Nicor, ATT, Kinder Morgan			
7-19-16	Case Opened			
10-18-16	Kinder Morgan Satisfied, Leave open for all other parties			
4-18-17	Buckeye & nicor is satisfied, Leave open for remaining parties			
7-18-17	Leave open for remaining parties			
10-17-17	Leave open for BP and ATT			

<u>C-12-16 Enbridge - Steve Spooner</u>				<u>218-464-8572</u>
Status	New Installation	Date	7-11-16	
Rectifier	Revised Output			
Mutual Bond	Retired			
Location	E side S Hartman Rd.			
Coordinates	Qtr Sct: NE, SE, NW, SW	T:	R:	N: <i>41.4280196</i>
	TWP: Crete	County: Will	State: IL	W: - <i>87.61704484</i>

CHICAGO REGION COMMITTEE ON UNDERGROUND CORROSION

Rectifier Output	<u>Current:</u> 3.8 A	<u>Voltage:</u> 7.05 V
Structure		
Description:		
Interested Parties:	Wolverine, Nicor, ATT, Kinder Morgan	
7-19-16	Case Opened	
10-18-16	Kinder Morgan and Wolverine are Satisfied, Leave open for Nicor & ATT	
4-18-17	Nicor Satisfied, leave open for ATT	
7-18-17	Leave open for ATT	
10-17-17	Lave open for ATT	

C-13-16 Enbridge - Steve Spooner **218-464-8572**

Status	New Installation	Date	7-11-16
Rectifier	Revised Output		
Mutual Bond	Retired		
Location	N side W Pauling Rd.		
Coordinates	<u>Qtr Sct:</u> NE, SE, NW, SW	<u>T:</u>	<u>R:</u> <u>N:</u>
	<u>TWP:</u> Monee	<u>County:</u> Will	<u>State:</u> IL <u>W:</u>
Rectifier Output	<u>Current:</u> 1.1 A	<u>Voltage:</u> 4.23V	
Structure			
Description:			
Interested Parties:	Wolverine, Nicor, ATT, Kinder Morgan		
7-19-16	Case Opened		
10-18-16	Kinder Morgan are Satisfied, Leave open for Nicor & ATT & Wolverine		
4-18-17	Leave open for ATT and Nicor		
7-18-17	Leave open for ATT and Nicor		
	Leave open for ATT and Nicor		

CHICAGO REGION COMMITTEE ON UNDERGROUND CORROSION

C-14-16 Enbridge - Steve Spooner

218-464-8572

Status	New Installation	Date	7-11-16
Rectifier	Revised Output		
Mutual Bond	Retired		
Location	W side CR 20		
Coordinates	Qrtr Sct: NE, SE, NW, SW	T:	R: <u>N:</u> 41. 34386727
	TWP: Peotone	County: Will	State: IL <u>W:</u> -87. 804879
Rectifier Output	Current: 2.7 A	Voltage: 7.31 V	
Structure			
Description:			
Interested Parties:	Nicor, ATT, Kinder Morgan, Northern Boarder,		
7-19-16	Case Opened		
10-18-16	Kinder Morgan are Satisfied, Leave open for wolverine, norther boarder, Nicor & ATT		
4-18-17	Nicor & northern border are Satisfied, leave open for ATT and wolverine.		
7-18-17	Wolverine Satisfied. Leave open for ATT		
	Leave open for ATT		

C-15-16 Enbridge - Steve Spooner

218-464-8572

Status	New Installation	Date	7-11-16
Rectifier	Revised Output		
Mutual Bond	Retired		
Location	W side HWY 45 (Kankakee station)		
Coordinates	Qrtr Sct: NE, SE, NW, SW	T:	R: <u>N:</u> 41. 30666479
	TWP: Peotone	County: Will	State: IL <u>W:</u> -87. 88220055
Rectifier Output	Current: 2.4 A	Voltage: 5 V	

CHICAGO REGION COMMITTEE ON UNDERGROUND CORROSION

Structure	
Description:	
Interested Parties:	Nicor, ATT, Kinder Morgan, Northern Boarder,
7-19-16	Case Opened
10-18-16	Kinder Morgan is Satisfied, Leave open for Northern Boarder, Nicor & ATT
4-18-17	Nicor & northern border are Satisfied, leave open for ATT
7-18-17	Leave open for ATT
	Leave open for ATT

C-16-16 Enbridge - Steve Spooner **218-464-8572**

Status	New Installation	Date	7-11-16
Rectifier	Revised Output		
Mutual Bond	Retired		
Location	W. side 120th Ave.		
Coordinates	Qrtr Sct: NE, SE, NW, SW	T:	R: <u>N:</u> 41.29639206
	TWP: Manteno	County: Will	State: IL <u>W:</u> - 87.90052484
Rectifier Output	Current: 1.8 A	Voltage: 4.26 V	
Structure			
Description:			
Interested Parties:	Nicor, ATT, Kinder Morgan, Northern Boarder,		
7-19-16	Case Opened		
10-18-16	Kinder Morgan and is Satisfied, Leave open for Northern Boarder, Nicor & ATT		
4-18-17	Nicor & northern border are Satisfied, leave open for ATT		
7-18-17	Leave open for ATT		

C-17-16 Enbridge - Steve Spooner **218-464-8572**

CHICAGO REGION COMMITTEE ON UNDERGROUND CORROSION

Status	New Installation			Date	7-11-16
Rectifier	Revised Output				
Mutual Bond	Retired				
Location	W side N13000 W Rd.				
Coordinates	Qrtr Sct: NE, SE, NW, SW	T:		R:	N: 41.17750369
	TWP: Essex	County: Kankakee		State: IL	W: - 88.12804229
Rectifier Output					
		Current: 1.4 A		Voltage: 7.15 V	
Structure					
Description:					
Interested Parties:	Nicor, ATT, Kinder Morgan, Peoples Gas				
7-19-16	Case Opened				
10-18-16	Kinder Morgan and Peoples Gas are Satisfied, Leave open for Nicor & ATT				
4-18-17	Nicor Satisfied, leave open for ATT				
7-18-17	Leave open for ATT				

C-19-16 Enbridge - Steve Spooner **218-464-8572**

Status	New Installation			Date	7-11-16
Rectifier	Revised Output				
Mutual Bond	Retired				
Location	W. side N2900 E. Rd.				
Coordinates	Qrtr Sct: NE, SE, NW, SW	T:		R:	N: 41.04980087
	TWP: Dwight	County: Livingston		State: IL	W: - 88.38031769
Rectifier Output					
		Current: 1.8 A		Voltage: 4.2 V	

CHICAGO REGION COMMITTEE ON UNDERGROUND CORROSION

Structure	
Description:	Added additional line and rectifiers, output in process of being adjusted. Total output to likely be reduced
Interested Parties:	Nicor, ATT
7-19-16	Case Opened
10-18-16	Leave open for Nicor and ATT
4-18-17	Nicor Satisfied, leave open for ATT
7-18-17	Leave open for ATT

<u>B-2-16 WE Energies- Larry Van Bogelen 262-945-8914</u>					
Status Rectifier Mutual Bond	New Groundbed			Date	4/19/2015
Location	County Line Rd. West of CTH F at address 11830 County Line Rd. (AKA-Poertner Rd.)				
Coordinates	Qrtr Sct: NE, SE, NW, SW	T:		R:	N: 44.51281°
	TWP: Humbird	County: Clark		State: WI	W: 90.91290°
Rectifier Output		Current: 1.18 A	Voltage: 15.93 V		
Structure	Gas Main				
Description:	Distributed groundbed				
Interested Parties:	Koch Pipeline, Northern Natural				
4-19-16	Case Open				
7-19-16	Leave open for all parties				
10-18-16	Leave open for all parties				
4-18-17	Leave open for all parties				

CHICAGO REGION COMMITTEE ON UNDERGROUND CORROSION

7-18-17	Leave open for all parties, Koch is satisfied.
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<u>B-4-16</u>		<u>Nipsco- Kyle Schiller 219-299-4813</u>			
Status Rectifier Mutual Bond	New Groundbed	Date	4/18/2015		
Location	850' West of Utah St, 60 North of US route 12/20				
Coordinates	Qrtr Sct: NE, SE, NW, SW	T:		R:	N: 41.595339°
	TWP: Gary	County: Lake	State: IN	W: -87.295290	
Rectifier Output		Current: 13 A	Voltage: 20.8 V		
Structure	14" Natural Gas Pipeline				
Description:	- Deepwell Groundbed				
Interested Parties:	BP, Praxair, Wolverine				
4-19-16	Case Opened				
7-19-16	Add Wolverine, Leave open for all parties				
10-18-16	Wolverine is Satisfied, Leave open for BP and Praxair				
4-18-17	Leave open for BP and Praxair				
7-18-17	Praxair satisfied. Leave open for BP				

<u>A-3-16</u>	<u>NICOR - Gary Kellett 630-514-6204</u>
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CHICAGO REGION COMMITTEE ON UNDERGROUND CORROSION

Status Rectifier Mutual Bond	New Groundbed	Date	1/12/16
Location	Ally Behind 425 1/2 s. Main St		
Coordinates	<u>Qrtr Sct:</u> NE, SE, NW, SW	<u>T:</u>	<u>R:</u> <u>N:</u> 41.7262°
	<u>TWP:</u> Montgomery	<u>County:</u> Kane	<u>State:</u> IL <u>W:</u> -88.3447°
Rectifier Output	<u>Current:</u> 1.1A	<u>Voltage:</u> 4.43 V	
Structure	Distribution Piping		
Description:	Surface bed		
Interested Parties:	ComEd, AT&T, Kinder Morgan		
1-12-16	Case Opened		
4-19-16	Leave open for all parties		
7-19-16	Kinder Morgan Satisfied, Leave open for ComEd and ATT		
10-18-16	Leave open for ComEd and ATT		
4-18-17	Leave open for ComEd and ATT		
7-18-17	Leave open for ComEd and ATT		

A-4-16 Praxair – Pat Davis 219-746-2066

Status Rectifier Mutual Bond	New Groundbed	Date	9-27-15
Location	Indianapolis BLVD and McShane		
Coordinates	<u>Qrtr Sct:</u> NE, SE, NW, SW	<u>T:</u>	<u>R:</u> <u>N:</u> 41.64316°
	<u>TWP:</u> East Chicago	<u>County:</u> Lake	<u>State:</u> IN <u>W:</u> -87.48068°

CHICAGO REGION COMMITTEE ON UNDERGROUND CORROSION

Rectifier Output	Current: 3.6A	Voltage: 29.8 V
Structure	16" Nitrogen	
Description:	Installed new 100' deep groundbed at McShane	
Interested Parties:	Oneok, West Shore, BP, Buckeye, Marathon, Nipsco, Kinder Morgan	
1-12-16	Case Opened	
4-19-16	Nipsco Satisfied,	
7-19-16	Buckeye and West Shore Satisfied, Keep open for remaining parties	
10-18-16	Kinder Morgan and Wolverine is Satisfied, leave open for remaining parties	
4-18-17	Leave open for remaining parties	
7-18-17	Leave open for remaining parties	

<u>D-3-15</u>				<u>NICOR - Gary Kellett 630-514-6204</u>			
Status Rectifier Mutual Bond	New Groundbed			Date	9/19/2015		
Location	Broadway (RT25) W/ of Illinois Ave.						
Coordinates	Qtr Sct: NE, SE, NW, SW	T:		R:		N: 41.7732102°	
	TWP: Aurora	County: Kane		State: IL		W: -88.30628693°	
Rectifier Output	Current: 3 A	Voltage: 6 V					
Structure							
Description:							

CHICAGO REGION COMMITTEE ON UNDERGROUND CORROSION

Interested Parties:	AT&T, ComEd, Kinder Morgan
10-20-15	Case Opened
1-15-16	Keep open for all parties
4-19-16	Keep open for all parties
7-19-16	Kinder Morgan Satisfied, Leave open for ComEd and ATT
10-18-16	Leave open for ComEd and ATT
4-18-17	Leave open for ComEd and ATT
7-18-17	Leave open for ComEd and ATT
10-17-17	Close due to no activity

B-7-15 Nipsco- Kyle Schiller 219-880-9016

Status	Revised Output	Date	3/18/2015
Rectifier Mutual Bond			
Location	West of Grant Street and South of 80-94, Gary, IN		
Coordinates	<u>Qtr Sct:</u>	<u>T:</u>	<u>R:</u>
	<u>N:</u> 41.565819°		
	<u>TWP:</u>	<u>County:</u>	<u>State:</u>
	Calumet	Lake	IN
			<u>W:</u> -87.357009°
Rectifier Output	<u>Current:</u> 14.3	<u>Voltage:</u> 13.6	
Structure	36" and 30" Natural Gas pipeline		
Description:	<ul style="list-style-type: none"> - Revised the rectifier's output. Approximately 270' West of Grant Street and 1200' south of 80-94 - Previous Output 11 A 11 V 		

CHICAGO REGION COMMITTEE ON UNDERGROUND CORROSION

Interested Parties:	Buckeye (Bonded), Wolverine, Cross Roads
4-21-2015	Case Opened.
7-21-2015	Wolverine satisfied. Keep open for Buckeye
10-20-15	Keep open for Buckeye
1-12-16	Keep open for Buckeye
4-19-16	Add CrossRoads Pipeline, Keep open for Buckeye
7-19-16	Buckeye satisfied, keep open for Crossroads
10-18-16	keep open for Crossroads
4-18-17	Leave open for Crossroads
7-18-17	Leave open for Crossroads
10-17-17	Closed due to inactivity

B-8-15

Buckeye- Robert Logan (317) 370-3019

Status Rectifier	New Installation Revised Output Retired	Date	January 2015
Location	2400 Michigan St Hammond IN Buckeye Terminal – NE Corner Hammond Main Property		
Coordinates	<u>Qrtr Sct:</u>	<u>T:</u>	<u>R:</u> <u>N:</u> 41.608692°
	<u>TWP:</u> North	<u>County:</u> Lake	<u>State:</u> IN <u>W:</u> -87.462697°
Rectifier Output	<u>Current:</u> A 10	<u>Voltage:</u> V 16	
Structure	Two 14" pipelines		
Description:	Replace groundbed to rectifier with 100' Deep Well – 350' south of, north east main property fence		
Interested Parties:	BP – Explorer - NIPSCO – Wolverine		
4-21-15	Case Opened.		

CHICAGO REGION COMMITTEE ON UNDERGROUND CORROSION

7-21-2015	Nipsco Satisfied. Leave open for rest
10-20-2015	Wolverine is Satisfied. Leave Open for BP and Explorer
1-12-16	Leave Open for BP and Explorer
4-19-16	Leave Open for BP and Explorer
7-19-16	Leave Open for BP and Explorer
10-18-16	Leave Open for BP and Explorer
4-18-17	Leave Open for BP and Explorer
7-18-17	Leave Open for BP and Explorer
10-17-17	Closed due to inactivity

<u>A-01-15 Enbridge – David Brown</u>		<u>219-218-5375</u>	
Status	New Installation	Date	12-15-14
Rectifier	Revised Output		
Mutual Bond	Retired		
Location	CR 75		
Coordinates	Qtr Sct: NE, SE, NW, SW	T:	R:
			N: 41.548069°
	TWP:	County:	State: IN
			W: -87.081481°
Rectifier Output	Current: 16.4A	Voltage: 16.33V	
Structure	Enbridge line 6B replacement		
Description:			
Interested Parties:	Nipsco, Buckeye, Crossroads		
1/20/2015	Case Opened		
4-21-2015	Keep Open for all parties		
7-21-2015	Keep Open for all parties		
10-20-15	Keep Open for all parties		
1-12-16	Keep Open for all parties		
4-19-16	Keep open Buckeye, add crossroads, Nipsco Satisfied		
7-19-16	Buckeye Satisfied, Keep open for Cross Roads		

CHICAGO REGION COMMITTEE ON UNDERGROUND CORROSION

10-18-16	Keep open for Cross Roads
4-18-17	Keep open for crossroads
7-18-17	Keep open for crossroads
10-17-17	Closed due to inactivity

A-03-15 Enbridge – David Brown **219-218-5375**

Status	New Installation	Date	12-15-14
Rectifier	Revised Output		
Mutual Bond	Retired		
Location	Chicago Trail Rd		
Coordinates	Qtr Sct: NE, SE, NW, SW	T:	R:
			N: 41.756941°
	TWP:	County:	State:
			W: -86.408146°
Rectifier Output	Current: 4.7A	Voltage: 36.22V	
Structure	Enbridge line 6B replacement		
Description:			
Interested Parties:	Nipsco, BP		
1/20/2015	Case Opened		
4-21-2015	Nipsco Satisfied, Keep open for BP.		
7-21-2015	Keep Open for BP		
10-20-15	Keep open for BP		
1-12-16	Keep open for BP		
4-19-16	Keep open for BP		
7-19-16	Keep open for BP		
10-18-16	Keep open for BP		
4-18-17	Keep open for BP		

CHICAGO REGION COMMITTEE ON UNDERGROUND CORROSION

7-18-17	Keep open for BP
10-17-17	Closed due to inactivity

A-04-15 Enbridge - David Brown 219-218-5375

Status	New Installation	Date	10-28-2014
Rectifier	Revised Output		
Mutual Bond	Retired		
Location	Enbridge Hartsdale Terminal 16 rectifiers		
Coordinates	Qrtr Sct: NE, SE, NW, SW	T:	R:
			N: °
	TWP:	County:	State:
			W: °
Rectifier Output Tank 1601	Current: 9.2A	Voltage: 14.75V	
Tank 1602	8.8A	12.29V	
Tank 1603	7.7A	12.55V	
Tank 1604	8.1A	19.09V	
Tank 1605	8.5A	16.65V	
Tank 1606	10.1A	16.37V	
Tank 1607	5.4A	10.33V	
Tank 1608	9.4A	12.25V	
Tank 1609	0A	0V	
Manifold 201 and 202	1.8A	5.68V	
Tank 1602 Zone	1.1A	5.85V	
Tank 1604 Zone	2.9A	10.53V	
Tank 1605/1606/1607 Zone	5.8A	12.65V	
Tank 1603 Zone	17.5A	23V	
Manifold 203	14.4A	11.99V	
Tank 1609 Zone	0	0	

CHICAGO REGION COMMITTEE ON UNDERGROUND CORROSION

Structure	Enbridge Hartsdale Terminal
Description:	
Interested Parties:	BP, Marathon, Nipsco, Explorer, Kinder Morgan, Buckeye
1/20/2015	Case Opened
4-21-2015	Keep open for all parties.
7-21-15	Keep open for all parties. Add Kinder Morgan and Buckeye
10-20-15	Marathon is Satisfied. Keep open for other parties
1-12-16	Keep open for BP, Explorer, Buckeye, Nipsco, KinderMorgan
4-19-16	Nipsco Satisfied, Keep open for BP, Explorer, Buckeye, KinderMorgan
7-19-16	Buckeye Satisfied, Keep open for BP, Explorer, Kinder Morgan
10-18-16	Kinder Morgan and Wolverine is Satisfied, Keep open for BP, Explorer
4-18-17	BP Satisfied. Keep open for explorer
7-18-17	Leave open 1 more meeting for Explorer
10-17-17	Closed due to inactivity

A-07-15 Transcanada Pipeline - Roger Domer 260-350-0644

Status	New Installation	Date	12-16-2014
Rectifier	Revised Output		
Mutual Bond	Retired		
Location	Clark Rd, South of 92nd ave		
Coordinates	Qtr Sct: NE, SE, NW, SW	T:	R:
	N: 41.447781°		
	TWP: center	County: lake	State: IN
		W: -87.392591°	
Rectifier Output	Current: 21.3A	Voltage: 13.5V	
Structure	22", 30"& 42" Natural Gas pipelines		

CHICAGO REGION COMMITTEE ON UNDERGROUND CORROSION

Description:	Replaced conventional groundbed
Interested Parties:	Vector, BP, Buckeye, Nipsco, Crossroads
1/20/2015	Case Opened
4-21-2015	Nipsco Satisfied, Keep open for Vector, BP, Buckeye.
7-21-2015	Keep Open for Vector, BP, Buckeye
10-20-2015	Keep Open for Vector, BP, Buckeye
1-12-16	Keep Open for Vector, BP, Buckeye
4-19-16	Keep Open for Vector, BP, Buckeye, add Crossroads pipeline
7-19-16	Buckeye Satisfied, Keep open for BP, Vector and Crossroads
10-18-16	Keep open for BP, Vector and Crossroads
4-18-17	BP Satisfied. Keep open for Vector and Crossroads
7-18-17	Vector Satisfied. Leave open for Crossroads
10-17-17	Closed due to inactivity

A-08-15 Transcanada Pipeline – Roger Domer 260-350-0644

Status	New Installation	Date	11-22-2014
Rectifier	Revised Output		
Mutual Bond	Retired		
Location	Old Monee Rd, South of Hamilton Rd		
Coordinates	Qrtr Sct: NE, SE, NW, SW	T:	R:
	N: 41.43102°		
	TWP: Monee	County: will	State: il
			W: -87.7241°
Rectifier Output	Current: 18.2A	Voltage: 21.9V	
Structure	22", 30"& 42" Natural Gas pipelines		
Description:	Replaced conventional groundbed		

CHICAGO REGION COMMITTEE ON UNDERGROUND CORROSION

Interested Parties:	BP, Nicor, AT&T, Buckeye, ComEd, Enbridge
1/20/2015	Case Opened
4-21-2015	Add, ComEd, Buckeye, Enbridge. Keep open for all parties
7-21-2015	Keep Open for all parties. Scheduled for 8-5-15 at 8am.
10-20-2015	Buckeye, Nicor, ATT are satisfied. Keep open for ComEd and Enbridge
1-12-16	ComEd Satisfied, Keep open for Enbridge
4-19-16	Keep open for BP and Enbridge
7-19-16	Keep open for BP and Enbridge
10-18-16	Keep open for BP and Enbridge
4-18-17	Keep open for BP and Enbridge
7-18-17	Enbridge Satisfied. Leave open for BP
10-16-17	BP Satisfied. Case Closed

END OF OLD BUSINESS

CLOSED CASES

<u>C-20-16 Enbridge - Steve Spooner</u>		<u>218-464-8572</u>	
Status Rectifier	New Installation Revised Output	Date	7-11-16

CHICAGO REGION COMMITTEE ON UNDERGROUND CORROSION

Mutual Bond	Retired			
Location	W. Side N2050 E Rd			
Coordinates	Qrtr Sct: NE, SE, NW, SW	T:	R:	N: <i>40.98541308</i>
	TWP: Odell	County: Livingston	State: IL	W: - <i>88.53869061</i>
Rectifier Output		Current: 0.9 A	Voltage: 1.35 V	
Structure				
Description:				
Interested Parties:	Nicor,			
7-19-16	Case Opened			
10-18-16	Leave open for Nicor			
4-18-17	Nicor Satisfied, case closed			

<i>A-6-17 Nicor – Gary Kellett</i>		<i>630-514-6204</i>		
Status	New Installation	Date	1-10-17	
Rectifier	Revised Output			
Mutual Bond	Retired			
Location	227 N Avon St			
Coordinates	Qrtr Sct: NE, SE, NW, SW	T:	R:	N: 42.2776
	TWP: Winnebago	County: Winne- bago	State: IL	W: -89.1059
Rectifier Output		Current: 4.5A	Voltage: 17V	
Structure	Pipeline			
Description:	Distributed Groundbed			
Interested Parties:				
1-11-17	Case Opened			

CHICAGO REGION COMMITTEE ON UNDERGROUND CORROSION

4-18-17	Case Closed
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B-5-15 Nipsco- Kyle Schiller 219-880-9016

Status Rectifier Mutual Bond	New Installation Rectifier and Ground Bed	Date	12/31/2014
Location	375' North of Dunes Highway (Route 12) and 400' West of Midwest Highway, Portage, IN		
Coordinates	Qrtr Sct:	T:	R:
	N: 41.619808°		
	TWP: Portage	County: Porter	State: IN
		W: -87.175319°	
Rectifier Output	Current: 20 A	Voltage: 29V	
Structure	12" Natural Gas pipeline		
Description:	- New install		
Interested Parties:	Praxair		
4-21-2015	Case Opened.		
7-21-2015	Leave open for praxair		
10-20-15	Leave Open for Praxair		
1-12-16	Leave Open for Praxair		
4-19-16	Leave open for Praxair		
7-19-16	Leave open for Praxair		
10-18-16	Praxair Scheduled to test 11-9-16		
4-18-17	Leave open for Praxair		
7-18-17	Praxair satisfied. Case closed		

B-4-15 Nipsco- Kyle Schiller 219-880-9016

CHICAGO REGION COMMITTEE ON UNDERGROUND CORROSION

Status Rectifier Mutual Bond	New Installation Rectifier and Ground bed			Date	12/31/2014
Location	ArcelorMittal, 250 West Dunes Highway (Route 12), Burns Harbor, IN				
Coordinates	Qrtr Sct:	T:		R:	N: 41.622778°
	TWP: Westchester	County: Porter		State: IN	W: -87.148649°
Rectifier Output		Current: 5.2 A	Voltage: 54.6V		
Structure	22' Natural Gas pipeline				
Description:	- Distributed ground bed system inside ArcelorMittal natural gas # 2 regulator station. Exterior remote ground bed outside of station protecting pipe supplying ArcelorMittal. 460' East of E. Boundary Road, 100' South of W Street, 1300' North of Dunes Highway				
Interested Parties:	Praxair				
4-21-2015	Case Opened.				
7-21-2015	Leave Open for Praxair				
10-20-15	Leave Open for Praxair				
1-12-16	Leave open for Praxair				
4-19-16	Leave open for Praxair				
7-19-16	Leave open for Praxair				
10-18-16	Praxair Scheduled to test 11-9-16				
4-18-17	Leave open for Praxair				
7-18-17	Praxair satisfied. Case closed				

B-3-16

Nipsco- Kyle Schiller 219-299-4813

Status Rectifier Mutual Bond	New Groundbed	Date	4/6/2015
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CHICAGO REGION COMMITTEE ON UNDERGROUND CORROSION

Location	750' South of County Rd W 300 N, East of Laporte/Porter County Line Road				
Coordinates	Qtr Sct: NE, SE, NW, SW	T:		R:	N: 41.649515°
	TWP: Michigan City	County: La Porte	State: IN	W: -86.932212	
Rectifier Output	Current: 5.1 A		Voltage: 5.4 V		
Structure	22" Natural Gas				
Description:	- Distributed Groundbed				
Interested Parties:	Transcanada, Wolverine				
4-19-16	Case Opened				
7-19-16	Add Wolverine, Leave open for all parties				
10-18-16	Wolverine is Satisfied, Leave open for TransCanada				
4-18-17	TransCanada is satisfied. Case closed				
<u>C-18-16 Enbridge - Steve Spooner</u>			<u>218-464-8572</u>		
Status	New Installation			Date	7-11-16
Rectifier	Revised Output				
Mutual Bond	Retired				
Location	W. side CR3 (Reddick station)				
Coordinates	Qtr Sct: NE, SE, NW, SW	T:		R:	N: <i>41.08444138</i>
	TWP: Reddick	County: Livingston	State: IL	W: -	<i>88.30910919</i>
Rectifier Output	Current: 1.2 A		Voltage: 1.6 V		
Structure					
Description:					
Interested Parties:	Nicor,				
7-19-16	Case Opened				
10-18-16	Leave open for Nicor				

CHICAGO REGION COMMITTEE ON UNDERGROUND CORROSION

4-18-17	Nicor Satisfied, case closed
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C-11-16 Enbridge - Steve Spooner **218-464-8572**

Status Rectifier Mutual Bond	New Installation Revised Output Retired	Date	7-11-16
Location	E. side 1075 E. Rd		
Coordinates	Qrtr Sct: NE, SE, NW, SW	T:	R: <i>N: 40.89739</i>
	TWP: Pontiac	County: Livingston	State: IL <i>W: -88.72442</i>
Rectifier Output	Current: 0.3 A	Voltage:	2.2 V
Structure			
Description:			
Interested Parties:	Nicor, wolverine		
7-19-16	Case Opened		
10-18-16	Wolverine is Satisfied, leave open for nicor		
4-18-17	Nicor Satisfied, case closed		

C-10-16 Enbridge - Steve Spooner **218-464-8572**

Status Rectifier Mutual Bond	New Installation Revised Output Retired	Date	7-11-16
Location	S. side CR 2100 E		
Coordinates	Qrtr Sct: NE, SE, NW, SW	T:	R: <i>N: 40.63881</i>
	TWP: Lexington	County: McLean	State: IL <i>W: -88.86117</i>

CHICAGO REGION COMMITTEE ON UNDERGROUND CORROSION

Rectifier Output	Current: 0.5 A	Voltage: 2.2 V
Structure		
Description:		
Interested Parties:	Nicor	
7-19-16	Case Opened	
10-18-16	Leave open for Nicor	
4-18-17	Nicor Satisfied, case closed	

C-9-16 Enbridge - Steve Spooner **218-464-8572**

Status	New Installation	Date	7-11-16
Rectifier	Revised Output		
Mutual Bond	Retired		
Location	W. side CR 1000 E		
Coordinates	Qrtr Sct: NE, SE, NW, SW	T:	R: <i>N: 40.28666</i>
	TWP: Heyworth	County: McLean	State: IL W: -88.95882
Rectifier Output	Current: 2A	Voltage: 1.1V	
Structure			
Description:			
Interested Parties:	Nicor		
7-19-16	Case Opened		
10-18-16	Leave open for Nicor		
4-18-17	Nicor Satisfied, case closed		

C-7-16 Enbridge - Steve Spooner **218-464-8572**

Status	New Installation	Date	7-11-16
Rectifier	Revised Output		

CHICAGO REGION COMMITTEE ON UNDERGROUND CORROSION

Mutual Bond	Retired			
Location	E. side 600 E Rd			
Coordinates	<u>Qrtr Sct:</u> NE, SE, NW, SW	<u>T:</u>		<u>R:</u> <i>N: 39.67692</i>
	<u>TWP:</u> Macon	<u>County:</u> Macon	<u>State:</u> IL	<u>W:</u> -89.02640
Rectifier Output		<u>Current:</u> 3.4A	<u>Voltage:</u> 5.1V	
Structure				
Description:				
Interested Parties:	Marathon			
7-19-16	Case Opened			
10-18-16	Leave case open for Marathon			
4-18-17	Leave case open for Marathon			
7-18-17	Marathon is satisfied. Case closed			

<u>D-9-16 Kinder Morgan – John Kessler III</u>		<u>815-482-6136</u>		
Status	New Installation	Date	10-13-16	
Rectifier	Revised Output			
Mutual Bond	Retired			
Location	RTE 120			
Coordinates	<u>Qrtr Sct:</u> NE, SE, NW, SW	<u>I</u>		<u>R:</u> <i>N: 42.352519</i>
	<u>TWP:</u> <i>Greenwood</i>	<u>County:</u> McHenry	<u>State:</u> IL	<u>W:</u> <i>-88.379473</i>
Rectifier Output		<u>Current:</u> 12A	<u>Voltage:</u> 28V	
Structure	North Chicago Lateral pipeline			
Description:	Distributed			
Interested Parties:	Nicor, Enbridge			
10-18-16	Case Opened,			

CHICAGO REGION COMMITTEE ON UNDERGROUND CORROSION

4-18-17	Enbridge and Nicor is Satisfied, Case Closed
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A-12-17 Enbridge – Jim Peiguss 219-670-1964

Status	New Installation	Date	1-16-17
Rectifier	Revised Output		
Mutual Bond	Retired		
Location	Marengo Rd 3 miles east of Belvidere		
Coordinates	Qrtr Sct: NE, SE, NW, SW	T:	R:
			N: 41.277158
	TWP: Belvidere	County: Boone	State: IL
			W: -88.789459
Rectifier Output	Current: 25.1A	Voltage: 42.6V	
Structure	Lines 13/61		
Description:	Distributed Groundbed		
Interested Parties:	Kinder Morgan		
1-16-17	Case Opened		
4-18-17	Adding Kinder Morgan		
7-18-17	Kinder Morgan Satisfied. Case closed		

CHICAGO REGION COMMITTEE ON UNDERGROUND CORROSION

A-09-15 Transcanada Pipeline – Roger Domer 260-350-0644

Status	New Installation	Date	11-04-2014
Rectifier	Revised Output		
Mutual Bond	Retired		
Location	Burville Rd, Southeast Corner of Crete Illinois, next to power plant		
Coordinates	Qrtr Sct: NE, SE, NW, SW	T:	R:
			N: 41.42848°
	TWP: Crete	County: Will	State: IL
			W: -87.618°
Rectifier Output	Current: 18.2A	Voltage: 21.9V	
Structure	22", 30"& 42" Natural Gas pipelines		
Description:	Installed new rectifier and 3100' of anode flex		
Interested Parties:	BP, Vector, Wolverine, Nicor, ComEd, AT&T, Kinder Morgan.		
1/20/2015	Case Opened		
4-21-2015	Add Nicor, ComEd, AT&T, Kinder Morgan. Wolverine is Satisfied. Keep open for remaining Parties.		
7-21-2015	Comed satisfied. Keep open for remaining parties		
10-20-2015	Nicor, Vector, ATT is satisfied. Keep open for BP and Kinder Morgan		
1-12-16	Keep open for BP and Kinder Morgan		
4-19-16	Keep open for BP and Kinder Morgan		
7-19-16	Keep open for BP and Kinder Morgan		
10-18-16	Kinder Morgan is Satisfied, leave open for BP		
4-18-17	BP Satisfied. Case closed		

INFORMATION

- **CRCUC 2017 SCHEDULE**
 - 1/10/2017 VENDOR DAY
 - 4/18/2017
 - 7/18/2017
 - 10/17/2017

CASE FORM

RECTIFIER AND MUTUAL BOND CASE PRESENTATION

<u>ABCD-XX-13</u>					
Status	New Installation			Date	
Rectifier	Revised Output				
Mutual Bond	Retired				
Location					
Coordinates	<u>Qrtr Sct:</u> NE, SE, NW, SW	<u>T:</u>		<u>R:</u>	<u>N:</u> xx.xxxxx°
	<u>TWP:</u>	<u>County:</u>		<u>State:</u>	<u>W:</u> -xx.xxxxx°
Rectifier Output	<u>Current:</u> A		<u>Voltage:</u> V		
Structure					
Description:					
Interested Parties:					