



Action Plan for:

**Root Cause Analysis Report
For 26 S. Meridian Street
Downtown Network Event
On August 13, 2014**

Issued December 5, 2014

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Introduction

Indianapolis Power & Light Company (IPL) provides the following information in response to the recommendations included in the Root Cause Analysis Report for the 26 S. Meridian Street Network Event which was issued on October 3, 2014 and discussed in a public meeting with the Indiana Utility Regulatory Commission (IURC) on November 3, 2014.

The action plan items are divided into two categories. The first category is Tier 1. This item directly addresses the root cause of the August 13th event and will mitigate both of the potential scenarios identified in the Company's report. Tier 2 recommendations, while not directly addressing the cause of the event, improve IPL's response and mitigate potential impacts should an event similar to August 13th occur.

Our mitigation measures exemplify these three key points:

- **Our downtown network is safe and reliable.** We remain committed to implement actions to minimize the risk and impact of potential future events.
- **We are committed to Safety and continuous improvement.** At IPL, Safety is our first value, but it goes hand in hand with our value to Strive for Excellence. We are committed to safety, both for the public and our employees, and to continue to improve the company's operations.
- **IPL continues to take actions to reduce the likelihood and impact of any future occurrence within its downtown underground network system.** The Company has implemented technology solutions to assist with the operation of the downtown network, has updated material specifications to enhance worker and public safety, has focused on inspections and maintenance, and has provided additional training for those involved with the downtown network.

A description of IPL's action plan for each of the nine report recommendations follows, supplemented by the Implementation Schedule which comprises Appendix A. IPL will provide status updates to the Commission in reports to be filed with the Commission by the end of January starting in 2015 and continuing through January 2019.

Tier I Action Items

The first Action Item is identified as “highest emphasis” or Tier I. IPL action items and milestones are listed for this Action Item. Appendix A includes a comprehensive implementation schedule.

Root Cause Analysis Report Recommendation:

1. Move forward with the program to replace all 480-volt network protectors as part of the Arc Flash Mitigation Program. Verify the location of all 58 pre-1985 Westinghouse CM-22 network protectors and prioritize them in the replacement program. These pre-1985 CM-22 network protectors will be prioritized along with the network protectors identified with aluminum bus and those protectors identified as having issues with toluene out gassing. These priorities come from commitments made in IPL’s 2012 response to the Independent Assessment of Indianapolis Power & Light’s Underground Downtown Network, dated December 13, 2011. This recommendation will address the potential gray spool insulator issue identified in this investigation. Change-out of the network protectors would also address any concerns with the bushings discussed in the alternative scenario.

IPL Response

- IPL Commitments
 - *Replace all 480-volt network protectors by December 31, 2018. IPL will replace 137 480-volt network protectors with priority being given to the pre-1985 Westinghouse CM-22s.*
 - *Hold meeting with downtown customers affected by the 480-volt network protector change out by end of 1st Quarter 2015. This meeting will be to explain the network protector program and discuss the outages that will be required and how IPL will coordinate the outages with the customers.*
 - *IPL will work with each affected customer to minimize the impact of the outages. This will include reviewing the buildings emergency generator capability and any existing portable generator connections they might have in place in their main switchgear that could be used. Adding portable generator connections would not be feasible as this would also require an outage to install the generator connection.*
 - *Monitor and track the 480-volt network protector replacement program progress on a monthly basis to assure that the schedule is being met.*

- IPL Actions to Date
 - *IPL has verified the location of each pre-1985 Westinghouse CM-22 network protector. These protectors will be given first priority for replacement.*
 - *IPL has completed training the Substation Mechanics on the features of the new Eaton CM-52 network protector that will replace all existing 480-volt network protectors.*
 - *IPL has taken delivery of 24 of the new Eaton CM-52 network protectors. An additional 20 Eaton CM-52 network protectors are on order and are scheduled for delivery in January 2015.*
 - *On November 5th IPL installed the first new Eaton CM-52 network protector in the UG 651 bay in the 26 S. Meridian Street vault. A customer outage took place on November 18, 2014 to finish the connections and the new network protector was placed in-service.*

- Deliverables

IPL will provide quarterly status reports to the Commission on the number of 480-volt network protectors that have been replaced and the remaining number to be replaced beginning with a report in April 2015 and continuing through January 2019.

Tier II Action Items

Action Items 2 through 9 are Tier II. These Action Items are described as the next level to be addressed in parallel with the Tier I recommendation. The Tier II Action Items do not directly address the cause of the failure, but do enhance the safety, operation, response, and reliability of the downtown underground network system.

Root Cause Analysis Report Recommendation:

2. Develop a formal written Network Event Response Plan. This plan should identify the key personnel, the order in which they are notified, the type of messages, and how messages are delivered. IPL will establish an on-scene incident command structure for handling the event and conduct annual tabletop drills of the plan. IPL will invite IFD to participate in the drills.

IPL Response

- IPL Commitments
 - *Issue a written draft of a Downtown Underground Network Event Response Plan by January 30, 2015. This plan will provide roles and responsibilities and the notification protocols to be followed. The plan will provide the support organizational structure that will be used during a network event and will designate an on-scene IPL Incident Liaison to IFD and other public safety officials that are on-scene. The final plan will be completed by February 28, 2015.*
 - *Conduct Tabletop drill of the Downtown Network Event Response Plan by April 30, 2015. IPL will extend an invitation to IFD and Marion County DHS to participate in the drill. Conduct annual drills thereafter.*
 - *While, it is IPL's desire to complete the Downtown Network Event Response Plan prior to the February 28, 2015 date, IPL believes the development of a quality plan will take approximately 60 days to complete. This timeframe is in line with what it took to develop the Emergency Operations Plan for Super Bowl XLVI.*
- IPL Actions to Date
 - *IPL met with the Indianapolis Fire Department (Recommendation 3) on September 10, 2014. One of the action items from that meeting was for IPL to identify the IPL on-scene incident commander in future events to the IFD Incident Commander. The purpose is to facilitate on-scene communications between IFD and IPL during an incident.*

While this discussion was focused on the downtown network, it also applies to all areas across the IPL system.

- *IPL is developing process flow charts to document the current response procedure. The “as-is” process flow will be modified where process improvements are identified.*
 - *IPL has identified and assigned the working group responsible for developing the Downtown Network Event Response Plan. This group is led by the Director, T&D Engineering and includes the Director Transmission Field Operations, Manager Substation & Network Field Operations, Manager Transmission Operations, Director External Communications, Team Leader Network Field Operations, and Underground Network Engineer.*
- Deliverables

The Downtown Network Event Response Plan will be completed by February 28, 2015. The Downtown Network Event Response Plan like other IPL emergency plans will be a restricted document as it will contain Critical Energy Infrastructure Information (CEII). Should the Commission wish to review details of the Network Response plan IPL is willing to meet with the Commission staff to discuss details of the plan in order to preserve the confidentiality of sensitive CEII information. A tabletop drill of the new plan will be conducted no later than April 30, 2015. A recap of the drill will be submitted to the Commission within 45 days after the tabletop drill.

Root Cause Analysis Report Recommendation:

3. Schedule a meeting with the Indianapolis Fire Department and review the response for a network event. This should include equipment staging, criteria for securing the scene, actions prior to IPL's arrival on scene, and coordination with IPL.

IPL Response

- IPL Commitments
 - *IPL will continue to formally meet with IFD annually.*
 - *IPL will include designation of an on-scene incident commander in the Network Emergency Response Plan (Recommendation 2)*
- IPL Actions to Date
 - *On September 10, 2014 IPL met with Assistant IFD Chief Kevin Bacon and IFD Public Information Officer Rita Reith to discuss the network event on August 13, 2014.*
 - *IPL personnel participating in that meeting were Mike Holtsclaw Director Engineering, Jim Sadtler Director Transmission Field Operations, Mark Irving, Manager Distribution Field Operations, Jim Page Manager Substation & Network Field Operations, Rick Leffler Team Leader Major Underground Projects, Greg Fennig Vice President Public affairs, and Brandy Davis-Handy Director External Communications.*
 - *During the meeting IPL and IFD discussed the South Meridian Street event and IPL shared with IFD the preliminary root cause analysis results on the failure of the network protector.*
 - *IFD and IPL discussed what both parties could do to improve the response to an event like South Meridian Street. One area of improvement suggested by IFD was to designate an on-scene incident commander for IPL to facilitate communication and coordination. IPL readily agreed to this request.*

- Deliverables

This recommendation is complete with the meeting of September 10, 2014.

Root Cause Analysis Report Recommendation:

4. Develop a mitigation strategy that would limit the severity and consequences of a network transformer failure or network protector failure, such as the one that occurred on August 13th. The mitigation strategy should consider changes to the protective relay settings on the underground primary feeders, ways to enhance the protection of the “unprotected zone” in the network protector, and the strategy could include retro-filling the main tank of selected network transformers with FR3¹ insulating fluid. This would reduce the fire risk in the event of a secondary transformer bushing failure or a tank rupture. All new network transformers are being purchased with FR3 insulating fluid in the main tank, along with the termination chamber and the switch compartment.

IPL Response

- IPL Commitments
 - *IPL will study the relay setting on network feeder breakers to determine if it is possible to use different relay settings for the existing relays to better detect a fault on the low voltage side of a network transformer and develop an Action Plan for feeder breaker relay settings by March 31, 2015.*
 - *IPL will review options for installing a fire detection system in 480 volt spot network vaults to determine the options. IPL will complete the review and issue a report with recommendations to management by March 31, 2015.*
 - *IPL will conduct a review of the use of FR3 insulating fluid in the main tank of select existing network transformers.² The review will consider the benefits of retro filling selected network transformers based on vault location and other criteria to be developed such as age and condition of the transformer, and critical customers. The review will be completed and a recommendation issued to management by May 1, 2015.*

¹ FR3 is a natural ester insulating fluid that has a high flashpoint above 310 degrees C. It is basically a vegetable oil product. This helps to reduce the risk of fire in electrical equipment. It is used as the insulating fluid in transformers and is compatible with mineral oil so it can be used as a retro fill product for transformers previously filled with mineral oil.

² The 2011 Network Assessment considered this issue and it was determined at that time, retro filling existing network transformers with FR3 was not warranted.

- IPL Actions to Date
 - *Changed network transformer specification in 2012 to require FR3 insulating fluid in the main tank of network transformers in addition to the termination and switch chambers.*
- Deliverables
 - *IPL will provide a status report on the possibility of changing relay settings to better detect a fault in the “unprotected zone” in the report to be filed in January 2016.*
 - *IPL will provide a status report on options for a fire detection system in 480 volt spot network vaults in the report to be filed in January 2016.*
 - *IPL will include a status report on the decision about using FR3 fluid in the main tank of network transformers in the report to be filed in January 2016.*

Root Cause Analysis Report Recommendation:

5. Conduct a review of all Gateway Vault circuits for communications stability and frequency of telemetry errors. Review the routing of Blue Network SCADA³ communications cable in the vaults. Determine if there is a way to provide increased fire protection during an event.

IPL Response

- IPL Commitments
 - *IPL will implement a daily report that will list all downtime network equipment that is flagged to be in telemetry error. This report will be sent at 7 AM each day to key people in Engineering, Network Field Operations, Transmission Field Operations, and Customer Operations Leadership to determine actions that are required.*
 - *An operating procedure will be developed and implemented that will outline how telemetry errors will be addressed.*
 - *Review the routing of the blue twisted pair communication cable routing and determine if there is an alternate routing that would provide increased protection from heat damage.*
- IPL Actions to Date
 - *IPL has developed a metric that measures the availability of the Network SCADA information based on the amount of time that the data is available. This is included in a monthly report on the asset management internal web site.*
- Deliverables
 - *IPL will provide the annual availability metric in the report to be filed in January of 2015.*

IPL implemented the daily network equipment status report on December 1, 2014. This report is now in place and is being issued each day at 7 AM.
 - *IPL will issue the operating procedure for responding to telemetry errors by December 31, 2014.*

³ The Blue Network SCADA communication cable is the copper twisted pair cable that runs in a daisy chain pattern from the network protector relays to the Vault Guard relay. This is the cable that was damaged in the event at 26 S Meridian Street on August 13, 2014.

- *IPL will issue a report to IPL management with recommendations for the routing of the blue communication wiring by May 1, 2015.*

Root Cause Analysis Report Recommendation:

6. Enhance the network protector inspection process to ensure attention to the issues cited in this report. The enhanced inspection process should include visual inspection of the bottom area around the transformer bus in the network protector for debris or evidence of tracking on the bus support insulators and visual inspection of the network protector bushing for signs of cracks or tracking. An example of this enhanced inspection process was the inspection of the bottom bus support insulators on the UG 661 network protector at 26 S. Meridian Street vault and 44 N Senate Avenue vaults and obtaining pictures of this area.

IPL Response

- IPL Commitments
 - *IPL will inspect all remaining 53 Westinghouse pre-1985 CM-22 network protectors to assure there is no debris in the bottom area of the bus support insulators and that there are no signs of heating or breakdown of the support insulator. These inspections will be completed no later than December 19, 2014.*
- IPL Actions to Date
 - *IPL created a special electronic inspection form to be used for inspections of the remaining Westinghouse pre-1985 CM-22 network protectors.*
 - *IPL has modified the tablet electronic inspection form to include checking the bottom area around the bus support insulator for debris, signs of heating, or any evidence of tracking for all network protectors.*
 - *IPL has modified the tablet electronic inspection form to include checking the network protector bushings for signs of cracks or tracking for all network protectors. The electronic tablet inspection business rules will require the inspector to take a picture and to send notification to Asset Management for abnormal situations.*
 - *Added a step to the vault inspection process to test the fire doors for correct operation.*
 - *On September 24, 2014 IPL inspected three Westinghouse CM-22 network protectors at the 44 N Senate vault with no issues identified.*

- *On September 26, 2014 IPL inspected the remaining Westinghouse CM-22 network protector at 26 S Meridian Street with no issues identified with that network protector.*

- Deliverables

IPL will include the inspection results of all the pre-1985 Westinghouse CM-22 network protectors in the report to be filed in January 2015.

Root Cause Analysis Report Recommendation:

7. To ensure no critical talent loss near-term and beyond, continue to monitor, update, and implement the Company's succession plan for key staff responsible for network operations and emergency response. This includes control room staff, first responders, engineering support, and those responsible for public and customer communications.

IPL Response

- IPL Commitments
 - *Continue to monitor, update, and implement the Company's succession plan for key staff responsible for network operations and emergency response and prepare a "snapshot" summary of the plan to be shared with the Commission.*
- IPL Actions to Date
 - *Customer Operations leadership is currently updating the succession plan information across the entire organization.*
 - *When possible, retain retired key staff under consulting contract such as recently with the Team Leader, Major Underground Projects Engineering, to assist with special projects and the transition to a new leader.*
 - *IPL has already and continues to take actions consistent with the succession plan. The promotion of a high achieving engineer to the position of Team Leader, Transmission Operations is an example of how the succession plan has been implemented. This move was one that was identified in the current succession plan.*
 - *Hired the Team Leader in the construction and maintenance area of Network & Substation Operations two years ago, and provided training opportunities and experience consistent with the plan. This individual will be well-positioned to become the Team Leader, Network Field Operations in a few years after the retirement of the current Team Leader.*

- Deliverables

IPL will provide a summary of the updated Customer Operations succession plan in the January 2016 report. Following receipt of the summary, should the Commission wish to review further details of the updated plan IPL is willing to meet with the Commission staff to discuss further details of the plan in order to preserve the confidentiality of sensitive employee information.

Root Cause Analysis Report Recommendation:

8. Continue to participate in industry forums and conferences where other companies that operate secondary network systems also participate. These meetings are key to information sharing between companies and suppliers on new equipment and designs as well as issues others have experienced. This commitment includes adequate annual budgeting for travel and memberships.

IPL Response

- IPL Commitments
 - *Send at least 2 people to the 2015 Eaton Electrical Network System Conference in Tempe, Arizona in March 2015.*
 - *IPL will continue to participate in the Northeast Underground Committee meetings.*
- IPL Actions to Date
 - *IPL had 4 people attend the 2013 Eaton Electrical Network System Conference in Albuquerque New Mexico.*
 - *IPL hosted the 2014 Eaton Electrical Network System Conference in Indianapolis in April 2014. There were over 200 people that attended the Indianapolis conference. IPL had 16 people attend and DPL had 3 people attend the conference in Indianapolis.*
 - *IPL has historically sent Substation Mechanics to Eaton's Network Protector Maintenance training program at the factory in Greenwood, South Carolina. There are three scheduled to go in February 2015.*
 - *The current vice-chairman of the Northeast Underground Committee is in an IPL employee.*
- Deliverables
 - Include a summary report of conferences attended and the number of IPL people that attended, in the January 2016 status report.*

Root Cause Analysis Report Recommendation:

9. Take steps to improve the state of inspection and maintenance records by implementing periodic auditing to improve the retrieval and completeness of inspection and maintenance records so as to better support future root cause analysis of network equipment failures.

IPL Response

- IPL Commitments
 - *IPL will conduct annual audits of the completeness of work order and inspection data with assistance from outside of Customer Operations.*
 - *IPL will develop a process where these audit results are reviewed by IPL Senior Management*
- IPL Actions to Date
 - *All IPL Central Business District (CBD) inspection data is currently collected with tablet computers using MobileFrame software. This software has business rules to guide users through the inspection process and requires pictures for abnormal conditions.*
 - *Based on the indicator conditions recorded, algorithms are used to create alarms that require actions for acknowledgement or follow up work in the work management system. All of this data is viewable via the asset management internal web site.*
 - *IPL performed an audit and compared inspection work orders in the work management system versus inspection records in the asset performance system during October 2014.*
 - *An additional process was implemented on October 9, 2014 with a daily check of inspection work orders and inspection results transferred to the inspection database.*
 - *IPL implemented a process on November 12, 2014 requiring more detailed individual cause and repair information for individual work order close out. This data is reviewed by supervision in a weekly work management meeting.*
 - *IPL completed a preliminary review of inspection records completeness during October 2014 and found better than 95% of the records inspected in 2014 had complete information.*

- Deliverables

An audit report documenting the quality and completeness of the inspections and work order repair/cause findings will be provided to IPL management and to the Commission for review by January 31, 2016.

Summary

IPL is committed to completing the actions described herein in a timely and efficient manner. We also commit to provide a summary of accomplishments, significant findings and lessons learned for each of the nine recommendations in a report to be filed with the Commission by the end of January starting in 2015 and continuing through January 2019.

Appendix A: Implementation Schedule

ID	Task Name	% Complete	Duration	Start	Finish	2015												2016												2017												2018											
						A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M				
1	Rec. 1 - Replace 480 Volt NWP	0%	1067 days	11/28/14	12/31/18	[Gantt bar from 11/28/14 to 12/31/18]																																															
2	2014 Replacements (2 Units)	0%	0 days	12/31/14	12/31/14	[Milestone diamond at 12/31/14]																																															
3	Pre-1985 West. (2 Units)	0%	0 days	12/31/14	12/31/14	[Milestone diamond at 12/31/14]																																															
4	2015 Replacements (35 Units)	0%	0 days	12/31/15	12/31/15	[Milestone diamond at 12/31/15]																																															
5	Pre-1985 West. (?? Units)	0%	0 days	12/31/15	12/31/15	[Milestone diamond at 12/31/15]																																															
6	Other Manuf. (?? Units)	0%	0 days	12/31/15	12/31/15	[Milestone diamond at 12/31/15]																																															
7	2016 Replacements (35 Units)	0%	0 days	12/31/16	12/31/16	[Milestone diamond at 12/31/16]																																															
8	Pre-1985 West. (?? Units)	0%	0 days	12/31/16	12/31/16	[Milestone diamond at 12/31/16]																																															
9	Other Manuf. (?? Units)	0%	0 days	12/31/16	12/31/16	[Milestone diamond at 12/31/16]																																															
10	2017 Replacements (35 Units)	0%	0 days	12/31/17	12/31/17	[Milestone diamond at 12/31/17]																																															
11	Pre-1985 West. (?? Units)	0%	0 days	12/31/17	12/31/17	[Milestone diamond at 12/31/17]																																															
12	Other Manuf. (?? Units)	0%	0 days	12/31/17	12/31/17	[Milestone diamond at 12/31/17]																																															
13	2018 Replacements (30 Units)	0%	0 days	12/31/18	12/31/18	[Milestone diamond at 12/31/18]																																															
14	Pre-1985 West. (?? Units)	0%	0 days	12/31/18	12/31/18	[Milestone diamond at 12/31/18]																																															
15	Other Manuf. (?? Units)	0%	0 days	12/31/18	12/31/18	[Milestone diamond at 12/31/18]																																															
16	Customer Meetings	0%	0 days	3/31/15	3/31/15	[Milestone diamond at 3/31/15]																																															
17	Monthly Schedule Review	0%	1067 days	11/28/14	12/31/18	[Gantt bar from 11/28/14 to 12/31/18]																																															
18	Annual Progress Report	0%	1042 days	12/31/14	12/31/18	[Gantt bar from 12/31/14 to 12/31/18]																																															
19	2014	0%	0 days	12/31/14	12/31/14	[Milestone diamond at 12/31/14]																																															
20	2015	0%	0 days	12/31/15	12/31/15	[Milestone diamond at 12/31/15]																																															
21	2016	0%	0 days	12/31/16	12/31/16	[Milestone diamond at 12/31/16]																																															
22	2017	0%	0 days	12/31/17	12/31/17	[Milestone diamond at 12/31/17]																																															
23	2018	0%	0 days	12/31/18	12/31/18	[Milestone diamond at 12/31/18]																																															
24	Rec. 2 - Network Response Plan	0%	260 days	1/30/15	1/29/16	[Gantt bar from 1/30/15 to 1/29/16]																																															
25	Submit Written Draft Plan	0%	0 days	1/30/15	1/30/15	[Milestone diamond at 1/30/15]																																															
26	Submit Final Plan	0%	0 days	2/27/15	2/27/15	[Milestone diamond at 2/27/15]																																															
27	Tabletop Drill	0%	0 days	4/30/15	4/30/15	[Milestone diamond at 4/30/15]																																															
28	Process Flow Charts	0%	0 days	4/30/15	4/30/15	[Milestone diamond at 4/30/15]																																															
29	2015 Progress Report	0%	0 days	1/29/16	1/29/16	[Milestone diamond at 1/29/16]																																															
30	Rec. 3 - Meeting with IFD	0%	1042 days	9/10/14	9/10/18	[Gantt bar from 9/10/14 to 9/10/18]																																															
31	2014 Annual Meeting	100%	0 days	9/10/14	9/10/14	[Milestone diamond at 9/10/14]																																															
32	2015 Annual Meeting	0%	0 days	9/10/15	9/10/15	[Milestone diamond at 9/10/15]																																															
33	2016 Annual Meeting	0%	0 days	9/10/16	9/10/16	[Milestone diamond at 9/10/16]																																															
34	2017 Annual Meeting	0%	0 days	9/10/17	9/10/17	[Milestone diamond at 9/10/17]																																															
35	2018 Annual Meeting	0%	0 days	9/10/18	9/10/18	[Milestone diamond at 9/10/18]																																															
36	Assign On-Scene Incident Commander	100%	0 days	9/10/14	9/10/14	[Milestone diamond at 9/10/14]																																															
37	Rec. 4 - Mitigation Strategy	0%	1 day?	11/18/14	11/18/14	[Gantt bar from 11/18/14 to 11/18/14]																																															
38	Network Feeder Breaker Relay	0%	218 days	3/31/15	1/29/16	[Gantt bar from 3/31/15 to 1/29/16]																																															
39	Review Relay Settings for fault detection improvements and develop action plan	0%	0 days	3/31/15	3/31/15	[Milestone diamond at 3/31/15]																																															
40	Issue Status Report	0%	0 days	1/29/16	1/29/16	[Milestone diamond at 1/29/16]																																															
41	Fire Detection System	0%	42 days	1/30/15	3/31/15	[Gantt bar from 1/30/15 to 3/31/15]																																															
42	Review options and issue recommendation report to IPL Management	0%	0 days	3/31/15	3/31/15	[Milestone diamond at 3/31/15]																																															
43	Issue Status Report	0%	0 days	1/30/15	1/30/15	[Milestone diamond at 1/30/15]																																															
44	FR3 Insulating Fluid (Main Transformer)	0%	195 days	5/1/15	1/29/16	[Gantt bar from 5/1/15 to 1/29/16]																																															
45	Review benefits and issue recommendation to IPL Management	0%	0 days	5/1/15	5/1/15	[Milestone diamond at 5/1/15]																																															
46	2015 Progress Report	0%	0 days	1/29/16	1/29/16	[Milestone diamond at 1/29/16]																																															
47	Rec. 5 - Gateway Vault Comm Review	0%	125 days	11/7/14	5/1/15	[Gantt bar from 11/7/14 to 5/1/15]																																															
48	Daily Telemetry Error Report	0%	0 days	12/1/14	12/1/14	[Milestone diamond at 12/1/14]																																															
49	Operating Procedure for Telemetry Errors	0%	0 days	12/31/14	12/31/14	[Milestone diamond at 12/31/14]																																															
50	Review Alternative Routing of SCADA Wiring for Heat Protection	0%	0 days	5/1/15	5/1/15	[Milestone diamond at 5/1/15]																																															
51	Network SCADA Information Metric	100%	0 days	11/7/14	11/7/14	[Milestone diamond at 11/7/14]																																															
52	Report Annual Availability Metric	0%	0 days	1/30/15	1/30/15	[Milestone diamond at 1/30/15]																																															
53	Rec. 6 - Enhanced NWP Inspections	0%	30 days	12/19/14	1/30/15	[Gantt bar from 12/19/14 to 1/30/15]																																															
54	Inspect pre-1985 West. CM-22 Units	0%	0 days	12/19/14	12/19/14	[Milestone diamond at 12/19/14]																																															
55	Issue Inspection Summary Report	0%	0 days	1/30/15	1/30/15	[Milestone diamond at 1/30/15]																																															
56	Rec. 7 - Success Plan Update	0%	0 days	1/29/16	1/29/16	[Milestone diamond at 1/29/16]																																															
57	Issue Succession Plan Summary	0%	0 days	1/29/16	1/29/16	[Milestone diamond at 1/29/16]																																															
58	Rec. 8 - Training	0%	0 days	1/29/16	1/29/16	[Milestone diamond at 1/29/16]																																															
59	Issue Conference Attendance Summary	0%	0 days	1/29/16	1/29/16	[Milestone diamond at 1/29/16]																																															
60	Rec. 9 - Asset Management Process Audit	0%	0 days	1/29/16	1/29/16	[Milestone diamond at 1/29/16]																																															
61	Issue Audit Report for IPL Management Review	0%	0 days	1/29/16	1/29/16	[Milestone diamond at 1/29/16]																																															
62	Inspection Quality & Completeness	0%	0 days	1/29/16	1/29/16	[Milestone diamond at 1/29/16]																																															
63	Work Order Repair/Cause Finding	0%	0 days	1/29/16	1/29/16	[Milestone diamond at 1/29/16]																																															

Project: 2014 Action Plan Schedul Date: 11/19/14

Task Split

Milestone Summary

Project Summary External Tasks

External Milestone Inactive Task

Inactive Milestone Inactive Summary

Manual Task Duration-only

Manual Summary Rollup Manual Summary

Start-only Finish-only

Deadline Progress

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