

## SPP Notification to Construct

February 8, 2010

SPP-NTC-20086

Mr. Tom Stuchlik  
Westar Energy, Inc.  
PO Box 889  
Topeka, KS 66601

RE: Notification to Construct Approved Reliability Network Upgrades

Dear Mr. Stuchlik,

Pursuant to Section 3.3 of the Southwest Power Pool, Inc. ("SPP") Membership Agreement and Attachment O, Section VIII, of the SPP Open Access Transmission Tariff ("OATT"), SPP provides this Notification to Construct ("NTC") directing Westar Energy, Inc., as the Designated Transmission Owner, to construct the Network Upgrade(s).

On January 26, 2010, the Southwest Power Pool ("SPP") Board of Directors approved the Network Upgrade(s) listed below to be constructed.

### New Network Upgrades

**Project ID:** 467

**Project Name:** Line - Gill - Interstate 138 kV

**Need Date for Project:** 6/1/2013

**Estimated Cost for Project:** \$50,000

**Network Upgrade ID:** 10603

**Network Upgrade Description:** Replace wave traps on Gill - Interstate 138 kV line.

**Network Upgrade Owner:** Westar Energy, Inc.

**MOPC Representative:** Tom Stuchlik, John Olsen

**TWG Representative:** Don Taylor

**Categorization:** Regional reliability

**Network Upgrade Specification:** Upgrade the line to emergency rating 256 MVA.

**Network Upgrade Justification:** To address the overload of Gill Energy Center East - Interstate 138 kV for the loss of Evans Energy Center South - Lakeridge 138 kV.

**Need Date for Network Upgrade:** 6/1/2013

**Estimated Cost for Network Upgrade (current day dollars):** \$50,000

**Cost Allocation of the Network Upgrade:** Base Plan

**Estimated Cost Source:** WR

**Project ID:** 660

**Project Name:** Line - Gill - Clearwater 138 kV

**Need Date for Project:** 6/1/2011

**Estimated Cost for Project:** \$3,324,375

**Network Upgrade ID:** 10866

**Network Upgrade Description:** Tear down and rebuild 7.88 mile Gill - Clearwater 138 kV.

**Network Upgrade Owner:** Westar Energy, Inc.

**MOPC Representative:** Tom Stuchlik, John Olsen

**TWG Representative:** Don Taylor

**Categorization:** Regional reliability

**Network Upgrade Specification:** Build the line to emergency rating 586 MVA.

**Network Upgrade Justification:** To address the overload of Gill - Clearwater 138 kV for the loss of Mingo - Red Willow 345 kV and several other contingencies.

**Need Date for Network Upgrade:** 6/1/2011

**Estimated Cost for Network Upgrade (current day dollars):** \$3,324,375

**Cost Allocation of the Network Upgrade:** Base Plan

**Estimated Cost Source:** SPP

**Project ID:** 819

**Project Name:** Line - Gill Energy Center East - MacArthur 69 kV

**Need Date for Project:** 6/1/2013

**Estimated Cost for Project:** \$3,127,500

**Network Upgrade ID:** 11082

**Network Upgrade Description:** Rebuild 5.56 mile Gill Energy Center East - MacArthur 69 kV line. Replace substation bus and jumpers at MacArthur 69 kV.

**Network Upgrade Owner:** Westar Energy, Inc.

**MOPC Representative:** Tom Stuchlik, John Olsen

**TWG Representative:** Don Taylor

**Categorization:** Regional reliability

**Network Upgrade Specification:** Upgrade the line to emergency rating 116 MVA.

**Network Upgrade Justification:** To address the overload of Gill Energy Center East - MacArthur 69 kV for the loss of Gill Energy Center East - Gill Junction 69 kV.

**Need Date for Network Upgrade:** 6/1/2013

**Estimated Cost for Network Upgrade (current day dollars):** \$3,127,500

**Cost Allocation of the Network Upgrade:** Base Plan

**Estimated Cost Source:** SPP

## Upgrades with Modifications

**Previous NTC number:** 20033

**Previous NTC Issue Date:** 1/27/2009

**Project ID:** 267

**Project Name:** Multi - Halstead - Mud Creek Jct. - Mid-American Jct. - Newton 69 kV

**Need Date for Project:** 6/1/2011

**Estimated Cost for Project:** \$4,160,000

**Network Upgrade ID:** 10350

**Network Upgrade Description:** Tear down and rebuild 7.3 mile Halstead - Mud Creek 69 kV line. Replace 336.4 kcmil ACSR conductor with 954 kcmil ACSR conductor and replace terminal equipment at substations.

**Network Upgrade Owner:** Westar Energy, Inc.

**MOPC Representative:** Tom Stuchlik, John Olsen

**TWG Representative:** Don Taylor

**Reason For Change:** Modify timing. 2009 STEP identified new RTO Determined Need Date. The previous RTO Determined Need Date was 6/1/2010.

**Categorization:** Regional reliability

**Network Upgrade Specification:** Upgrade the line to emergency rating 128 MVA.

**Network Upgrade Justification:** To address the overload of Halstead - Newton 69 kV for loss of Moundridge - Yost 69 kV or the Moundridge 138/69 kV transformer Ckt 1.

**Need Date for Network Upgrade:** 6/1/2011

**Estimated Cost for Network Upgrade (current day dollars):** \$2,500,000

**Cost Allocation of the Network Upgrade:** Base Plan

**Estimated Cost Source:** WR

**Network Upgrade ID:** 10351

**Network Upgrade Description:** Rebuild 1.0 mile Mud Creek Junction - Mid-American Junction 69 kV line. Replace 336.4 kcmil ACSR conductor with 954 kcmil ACSR conductor and replace terminal equipment at substations.

**Network Upgrade Owner:** Westar Energy, Inc.

**MOPC Representative:** Tom Stuchlik, John Olsen

**TWG Representative:** Don Taylor

**Reason For Change:** Modify timing. 2009 STEP identified new RTO Determined Need Date. The previous RTO Determined Need Date was 6/1/2010.

**Categorization:** Regional reliability

**Network Upgrade Specification:** Upgrade the line to emergency rating 128 MVA.

**Network Upgrade Justification:** To address the overload of Halstead - Newton 69 kV for loss of Moundridge - Yost 69 kV or the Moundridge 138/69 kV transformer Ckt 1.

**Need Date for Network Upgrade:** 6/1/2011

**Estimated Cost for Network Upgrade (current day dollars):** \$360,000

**Cost Allocation of the Network Upgrade:** Base Plan

**Estimated Cost Source:** WR

**Network Upgrade ID:** 10352

**Network Upgrade Description:** Rebuild 3.9 mile Mid-American Junction - Newton 69 kV line. Replace 336.4 kcmil ACSR conductor with 954 kcmil ACSR conductor and replace terminal equipment at substations.

**Network Upgrade Owner:** Westar Energy, Inc.

**MOPC Representative:** Tom Stuchlik, John Olsen

**TWG Representative:** Don Taylor

**Reason For Change:** Modify timing. 2009 STEP identified new RTO Determined Need Date. The previous RTO Determined Need Date was 6/1/2010.

**Categorization:** Regional reliability

**Network Upgrade Specification:** Upgrade the line to emergency rating 128 MVA.

**Network Upgrade Justification:** To address the overload of Halstead - Newton 69 kV for loss of Moundridge - Yost 69 kV or the Moundridge 138/69 kV transformer Ckt 1.

**Need Date for Network Upgrade:** 6/1/2011

**Estimated Cost for Network Upgrade (current day dollars):** \$1,300,000

**Cost Allocation of the Network Upgrade:** Base Plan

**Estimated Cost Source:** WR

**Previous NTC number:** 20033

**Previous NTC Issue Date:** 1/27/2009

**Project ID:** 491

**Project Name:** Line - Bismarck - Co-Op 115 kV

**Need Date for Project:** 6/1/2011

**Estimated Cost for Project:** \$2,085,000

**Network Upgrade ID:** 10636

**Network Upgrade Description:** Rebuild 2.9 mile Bismarck - Farmer's Consumer Co-Op 115 kV.

**Network Upgrade Owner:** Westar Energy, Inc.

**MOPC Representative:** Tom Stuchlik, John Olsen

**TWG Representative:** Don Taylor

**Reason For Change:** Modify timing. 2009 STEP identified new RTO Determined Need Date. The previous RTO Determined Need Date was 6/1/2009.

**Categorization:** Regional reliability

**Network Upgrade Specification:** Upgrade the line to emergency rating 181 MVA.

**Network Upgrade Justification:** To address the overload of Bismarck - Farmer's Consumer Co-Op 115 kV for the loss of Mockingbird Hill - SW Lawrence 115 kV.

**Need Date for Network Upgrade:** 6/1/2011

**Estimated Cost for Network Upgrade (current day dollars):** \$2,085,000

**Cost Allocation of the Network Upgrade:** Base Plan

**Estimated Cost Source:** WR

**Previous NTC number:** 20033  
**Previous NTC Issue Date:** 1/27/2009  
**Project ID:** 533  
**Project Name:** XFR - Auburn Road 230/115 kV  
**Need Date for Project:** 6/1/2015  
**Estimated Cost for Project:** \$12,622,500

**Network Upgrade ID:** 10678  
**Network Upgrade Description:** Install second Auburn Road 230/115 kV transformer.  
**Network Upgrade Owner:** Westar Energy, Inc.  
**MOPC Representative:** Tom Stuchlik, John Olsen  
**TWG Representative:** Don Taylor  
**Reason For Change:** Modify timing. 2009 STEP identified new RTO Determined Need Date. The previous RTO Determined Need Date was 6/1/2013.  
**Categorization:** Regional reliability  
**Network Upgrade Specification:** Install the transformer for emergency rating 308 MVA.  
**Network Upgrade Justification:** To address the system-intact overload of the existing Auburn Road 230/115 kV transformer. Also to address overloading of the transformer for loss of the Tecumseh Hill 230/115 kV transformer, Swissvale - Tecumseh Hill 230 kV, McDowell Creek 230/115 kV transformer, or Hoyt - Northland 115kV line.  
**Need Date for Network Upgrade:** 6/1/2015  
**Estimated Cost for Network Upgrade (current day dollars):** \$12,622,500  
**Cost Allocation of the Network Upgrade:** Base Plan  
**Estimated Cost Source:** WR

**Previous NTC number:** 20033  
**Previous NTC Issue Date:** 1/27/2009  
**Project ID:** 534  
**Project Name:** XFR - Halstead South 138/69 kV  
**Need Date for Project:** 6/1/2011  
**Estimated Cost for Project:** \$1,400,000

**Network Upgrade ID:** 10679  
**Network Upgrade Description:** Replace Halstead South 138/69 kV transformer.  
**Network Upgrade Owner:** Westar Energy, Inc.  
**MOPC Representative:** Tom Stuchlik, John Olsen  
**TWG Representative:** Don Taylor  
**Reason For Change:** Modify timing. 2009 STEP identified new RTO Determined Need Date. The previous RTO Determined Need Date was 6/1/2014.  
**Categorization:** Regional reliability  
**Network Upgrade Specification:** Install the transformer for emergency rating 110 MVA.

**Network Upgrade Justification:** To address the overload of the Halstead South 138/69 kV transformer for the loss of the Halstead North 138/69 kV transformer.

**Need Date for Network Upgrade:** 6/1/2011

**Estimated Cost for Network Upgrade (current day dollars):** \$1,400,000

**Cost Allocation of the Network Upgrade:** Base Plan

**Estimated Cost Source:** WR

**Previous NTC number:** 20033

**Previous NTC Issue Date:** 1/27/2009

**Project ID:** 652

**Project Name:** Line - Hutchinson Energy Center - Huntsville 115 kV

**Need Date for Project:** 6/1/2013

**Estimated Cost for Project:** \$12,487,500

**Network Upgrade ID:** 10857

**Network Upgrade Description:** Rebuild the Westar portion of the 28.8 mile Hutchinson Energy Center - Huntsville 115 kV line and reset CTs at Hutchinson Energy Center.

**Network Upgrade Owner:** Westar Energy, Inc.

**MOPC Representative:** Tom Stuchlik, John Olsen

**TWG Representative:** Don Taylor

**Reason For Change:** Modify timing. 2009 STEP identified new RTO Determined Need Date. The previous RTO Determined Need Date was 6/1/2015.

**Categorization:** Regional reliability

**Network Upgrade Specification:** Upgrade the line to emergency rating 194 MVA.

**Network Upgrade Justification:** To address the overload of Hutchinson Energy Center - Huntsville 115 kV for the loss of Circle - Mullergren 230 kV and also for the loss of Clearwater - Milan Tap - Harper 115 kV.

**Need Date for Network Upgrade:** 6/1/2013

**Estimated Cost for Network Upgrade (current day dollars):** \$12,487,500

**Cost Allocation of the Network Upgrade:** Base Plan

**Estimated Cost Source:** SPP

**Previous NTC number:** 20006

**Previous NTC Issue Date:** 2/13/2008

**Project ID:** 30056

**Project Name:** Device - TC Seneca 115 kV Capacitor

**Need Date for Project:** 6/1/2017

**Estimated Cost for Project:** \$588,600

**Network Upgrade ID:** 50062

**Network Upgrade Description:** Add 10.9 Mvar capacitor bank at TransCanada 115 kV instead of Seneca.

**Network Upgrade Owner:** Westar Energy, Inc.  
**MOPC Representative:** Tom Stuchlik, John Olsen  
**TWG Representative:** Don Taylor  
**Reason For Change:** Modify timing and scope. 2009 STEP identified new RTO Determined Need Date for Project. Previous RTO Determined Need Date was 6/1/2008. The location for this capacitor bank changed from the South Seneca substation to the nearby TransCanada substation.  
**Categorization:** Regional reliability  
**Network Upgrade Specification:** Install capacitor of size 10.9 Mvar.  
**Network Upgrade Justification:** To address low voltage from the loss of Kelly - Seneca 115 kV, the Kelly 161/115 kV transformer, and other contingencies.  
**Need Date for Network Upgrade:** 6/1/2017  
**Estimated Cost for Network Upgrade (current day dollars):** \$588,600  
**Cost Allocation of the Network Upgrade:** Base Plan  
**Estimated Cost Source:** WR

## Withdrawal of Upgrades

**Previous NTC number:** 20033  
**Previous NTC issue Date:** 1/27/2009  
**Project ID:** 169  
**Project Name:** Line - Chapman - Clayton Center 115 kV Uprate

**Network Upgrade ID:** 10218  
**Network Upgrade Description:** Uprate CT ratio on Chapman - Clay Center 115 kV line.  
**Reason For Change:** Withdraw. Previous NTC was based on a model error. Verified that this line is rated much higher than modeled. Model limit is the CT on the Clay Center transformer.

**Previous NTC number:** 20033  
**Previous NTC issue Date:** 2/13/2008  
**Project ID:** 410  
**Project Name:** Line - Circle - Ark Valley - Tower 33 115 kV

**Network Upgrade ID:** 10536  
**Network Upgrade Description:** Rebuild Ark Valley - Tower 33 115 kV.  
**Reason For Change:** Withdraw. With the 2009 STEP model's circuit configuration and load forecast this upgrade is no longer required.

**Previous NTC number:** 20033  
**Previous NTC issue Date:** 1/27/2009

**Project ID:** 495

**Project Name:** Line - Lawrence Hill - Mockingbird 115 kV

**Network Upgrade ID:** 10640

**Network Upgrade Description:** Rebuild the 5.49 mile Lawrence Hill - Mockingbird Hill 115 kV line.

**Reason For Change:** Withdraw. Lawrence Hill - Mockingbird 115 kV did not overload using the 2009 STEP models with the new load forecast.

**Previous NTC number:** 20033

**Previous NTC issue Date:** 1/27/2009

**Project ID:** 623

**Project Name:** Line - Timber Junction - Winfield 69 kV

**Network Upgrade ID:** 10811

**Network Upgrade Description:** Rebuild the 14.63 miles of 69 kV line from Timber Junction - Winfield.

**Reason For Change:** Withdraw. The Timber Junction - Winfield 69 kV Ckt 1 did not overload using the 2009 STEP models with the new load forecast.

**Previous NTC number:** 20033

**Previous NTC issue Date:** 1/27/2009

**Project ID:** 624

**Project Name:** Line - Fort Junction - West Junction City 115 kV

**Network Upgrade ID:** 10812

**Network Upgrade Description:** Build new 8.76 mile Fort Junction - West Junction City 115 kV line that follows the path of the JEC - Summit 345 kV line. Remove old double circuit and West Junction City Junction (East) - West Junction City 115 kV line.

**Reason For Change:** Withdraw. The Fort Junction Switching Station - West Junction City 115 kV Ckt 1 did not overload using the 2009 STEP models with the new load forecast.

### **Withdrawal of Network Upgrade**

Westar Energy, Inc. has been made aware of all Network Upgrades withdrawn through the expansion plan process. This letter is the formal notification to stop any further work on this Network Upgrade(s), collect any cost associated with the Network Upgrade(s), and provide this information to SPP.

### **Commitment to Construct**

Please provide to SPP a written commitment to construct the Network Upgrade(s) within 90 days of the date of this Notification to Construct, pursuant to Attachment O, Section VIII.6 of the SPP



OATT, in addition to providing a construction schedule for the Network Upgrade(s). Failure to provide a written commitment to construct as required by Attachment O could result in the Network Upgrade(s) being assigned to another entity.

**Mitigation Plan**

The Need Date represents the timing required for the Network Upgrade(s) to address the identified need. Your prompt attention is required for formulation and approval of any necessary mitigation plans for the Network Upgrade(s) if the Need Date is not feasible. Additionally, if it is anticipated that the completion of any Network Upgrade will be delayed past the Need Date, SPP requires a mitigation plan be filed within 60 days of the determination of expected delays.

**Notification of Commercial Operation**

Please submit a notification of commercial operation for each listed Network Upgrade to SPP as soon as the Network Upgrade is complete and in-service. Please provide SPP with the actual costs of these Network Upgrades as soon as possible after completion of construction. This will facilitate the timely billing by SPP based on actual costs.

**Notification of Progress**

On an ongoing basis, please keep SPP advised of any inability on Westar Energy, Inc.'s part to complete the approved Network Upgrade(s). For project tracking purposes, SPP requires Westar Energy, Inc. to submit updates on the status of the Network Upgrade(s) on a quarterly basis in conjunction with the SPP Board of Directors meetings. However, consistent with Sections 20.1 and 32.10 of the SPP OATT, Westar Energy, Inc. shall also advise SPP of any inability to comply with the Project Schedule as soon as the inability becomes apparent.

All terms and conditions of the SPP OATT and the SPP Membership Agreement shall apply to this Project, and nothing in this NTC shall vary such terms and conditions.

Don't hesitate to contact me if you have questions or comments regarding these instructions. Thank you for the important role that you play in maintaining the reliability of our electric grid.

Sincerely,

A handwritten signature in black ink that reads "Bruce A. Rew".

Bruce Rew  
Vice President, Engineering  
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cc: Carl Monroe, Les Dilahunty, Pat Bourne, Jay Caspary, Keith Tynes, John Mills,  
[SPPprojecttracking@spp.org](mailto:SPPprojecttracking@spp.org), Don Taylor, John Olsen