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**SPP-NTC-200309**

**iSPP  
Notification to Construct**

December 03, 2014

Mr. John Fulton  
Southwestern Public Service Company  
P.O. Box 1261  
Amarillo, TX 79105

RE: Notification to Construct Approved High Priority Upgrades

Dear Mr. Fulton,

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

On April 29, 2014, the SPP Board of Directors approved the High Priority Incremental Load Study ("HPILS"). On May 19, 2014, SPP issued SPS the Notification to Construct with Conditions ("NTC-C") No. 200283.

On November 18, 2014, SPP received SPS's NTC-C Project Estimate(s) ("CPE") for the Network Upgrade(s) specified in the NTC-C No. 200283. SPP approved the CPE(s) as meeting the requirements of Condition No. 1 of the NTC-C, and an NTC would therefore be automatically issued for the Network Upgrade(s) listed below.

**Upgrades with Modifications**

**Previous NTC Number:** 200283

**Previous NTC Issue Date:** 5/19/2014

**Project ID:** 30376

**Project Name:** Multi - Tuco - Yoakum - Hobbs 345/230 kV Ckt 1

**Estimated Cost for Project:** \$241,826,483

**Network Upgrade ID:** 50447

**Network Upgrade Name:** Tuco - Yoakum 345 kV Ckt 1

**Network Upgrade Description:** Construct new 107-mile 345 kV line from Tuco to Yoakum. Install any necessary 345 kV terminal equipment at Yoakum associated with new 345/230 kV transformer.



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**Network Upgrade Owner:** SPS

**MOPC Representative(s):** William Grant

**TWG Representative:** John Fulton

**Reason for Change:** The CPE(s) for this project was determined to meet the requirements of Condition No. 1 of NTC-C No. 200283. Therefore, the conditions of the project are removed.

**Categorization:** High priority

**Network Upgrade Specification:** All elements and conductor must have at least an emergency rating of 1792 MVA.

**Network Upgrade Justification:** To address needs identified in HPILS.

**Need Date for Network Upgrade:** 6/1/2020

**Estimated Cost for Network Upgrade (current day dollars):** \$129,945,941

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

**Estimated Cost Source:** SPS

**Date of Estimated Cost:** 11/18/2014

**Network Upgrade ID:** 50451

**Network Upgrade Name:** Yoakum 345/230 kV Ckt 1 Transformer

**Network Upgrade Description:** Install new 345/230 kV 644 MVA transformer at Yoakum substation. Install any necessary 230 kV terminal equipment.

**Network Upgrade Owner:** SPS

**MOPC Representative(s):** William Grant

**TWG Representative:** John Fulton

**Reason for Change:** The CPE(s) for this project was determined to meet the requirements of Condition No. 1 of NTC-C No. 200283. Therefore, the conditions of the project are removed.

**Categorization:** High priority

**Network Upgrade Specification:** All elements and conductor must have at least an emergency rating of 644 MVA.

**Network Upgrade Justification:** To address needs identified in HPILS.

**Need Date for Network Upgrade:** 6/1/2020

**Estimated Cost for Network Upgrade (current day dollars):** \$5,047,343

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

**Estimated Cost Source:** SPS

**Date of Estimated Cost:** 11/18/2014

**Network Upgrade ID:** 50452

**Network Upgrade Name:** Hobbs 345/230 kV Ckt 1 Transformer

**Network Upgrade Description:** Expand existing Hobbs substation to accommodate 345 kV terminals. Install 345/230 kV 644 MVA transformer at Hobbs.

**Network Upgrade Owner:** SPS



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**MOPC Representative(s):** William Grant

**TWG Representative:** John Fulton

**Reason for Change:** The CPE(s) for this project was determined to meet the requirements of Condition No. 1 of NTC-C No. 200283. Therefore, the conditions of the project are removed.

**Categorization:** High priority

**Network Upgrade Specification:** All elements and conductor must have at least an emergency rating of 644 MVA.

**Network Upgrade Justification:** To address needs identified in HPILS.

**Need Date for Network Upgrade:** 6/1/2018

**Estimated Cost for Network Upgrade (current day dollars):** \$16,204,449

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

**Estimated Cost Source:** SPS

**Date of Estimated Cost:** 11/18/2014

**Network Upgrade ID:** 50457

**Network Upgrade Name:** Hobbs - Yoakum 345 kV Ckt 1

**Network Upgrade Description:** Construct new 52-mile 345 kV line from Hobbs to Yoakum.

**Network Upgrade Owner:** SPS

**MOPC Representative(s):** William Grant

**TWG Representative:** John Fulton

**Reason for Change:** The CPE(s) for this project was determined to meet the requirements of Condition No. 1 of NTC-C No. 200283. Therefore, the conditions of the project are removed.

**Categorization:** High priority

**Network Upgrade Specification:** All elements and conductor must have at least an emergency rating of 1792 MVA.

**Network Upgrade Justification:** To address needs identified in HPILS.

**Need Date for Network Upgrade:** 6/1/2020

**Estimated Cost for Network Upgrade (current day dollars):** \$90,628,750

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

**Estimated Cost Source:** SPS

**Date of Estimated Cost:** 11/18/2014

**Previous NTC Number:** 200283

**Previous NTC Issue Date:** 5/19/2014

**Project ID:** 30569

**Project Name:** Multi - Potash Junction - Road Runner 230/115 kV Ckt 1

**Need Date for Project:** 6/1/2015

**Estimated Cost for Project:** \$53,673,499



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## SPP-NTC-200309

**Network Upgrade ID:** 50708

**Network Upgrade Name:** Potash Junction - Road Runner 230 kV Ckt 1

**Network Upgrade Description:** Construct new 40-mile 345 kV line operated at 230 kV from Potash Junction to Road Runner.

**Network Upgrade Owner:** SPS

**MOPC Representative(s):** William Grant

**TWG Representative:** John Fulton

**Reason for Change:** The CPE(s) for this project was determined to meet the requirements of Condition No. 1 of NTC-C No. 200283. Therefore, the conditions of the project are removed.

**Categorization:** High priority

**Network Upgrade Specification:** All elements and conductor must have at least an emergency rating of 541 MVA.

**Network Upgrade Justification:** To address needs identified in HPILS.

**Estimated Cost for Network Upgrade (current day dollars):** \$43,096,827

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

**Estimated Cost Source:** SPS

**Date of Estimated Cost:** 11/18/2014

**Network Upgrade ID:** 50709

**Network Upgrade Name:** Road Runner 230/115 kV Substation

**Network Upgrade Description:** Construct new 230 kV Road Runner substation, tapping the existing 115 kV line from Red Bluff to Agave Hills. Construct substation to accommodate future 345 kV line terminal from Potash Junction. Install new 230/115 kV 288 MVA transformer at new Road Runner substation. Install any necessary terminal equipment.

**Network Upgrade Owner:** SPS

**MOPC Representative(s):** William Grant

**TWG Representative:** John Fulton

**Reason for Change:** The CPE(s) for this project was determined to meet the requirements of Condition No. 1 of NTC-C No. 200283. Therefore, the conditions of the project are removed.

**Categorization:** High priority

**Network Upgrade Specification:** All elements and conductor must have at least an emergency rating of 288 MVA.

**Network Upgrade Justification:** To address needs identified in HPILS.

**Estimated Cost for Network Upgrade (current day dollars):** \$10,576,672

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

**Estimated Cost Source:** SPS

**Date of Estimated Cost:** 11/18/2014



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## SPP-NTC-200309

**Previous NTC Number:** 200283  
**Previous NTC Issue Date:** 5/19/2014  
**Project ID:** 30637  
**Project Name:** Multi - Hobbs - Kiowa 345 kV Ckt 1  
**Need Date for Project:** 6/1/2018  
**Estimated Cost for Project:** \$71,058,482

**Network Upgrade ID:** 50851  
**Network Upgrade Name:** Kiowa 345 kV Substation  
**Network Upgrade Description:** Construct new Kiowa 345 kV substation adjacent to Potash Junction. 345 kV bus will be ring, expandable to minimum 6 line or transformer terminals. Install terminal equipment as needed.  
**Network Upgrade Owner:** SPS  
**MOPC Representative(s):** William Grant  
**TWG Representative:** John Fulton  
**Reason for Change:** The CPE(s) for this project was determined to meet the requirements of Condition No. 1 of NTC-C No. 200283. Therefore, the conditions of the project are removed.  
**Categorization:** High priority  
**Network Upgrade Specification:** All elements and conductor must have at least an emergency rating of 1792 MVA.  
**Network Upgrade Justification:** To address needs identified in HPILS.  
**Estimated Cost for Network Upgrade (current day dollars):** \$11,249,526  
**Cost Allocation of the Network Upgrade:** Base Plan  
**Estimated Cost Source:** SPS  
**Date of Estimated Cost:** 11/18/2014

**Network Upgrade ID:** 50875  
**Network Upgrade Name:** Hobbs - Kiowa 345 kV Ckt 1  
**Network Upgrade Description:** Construct new 47.2-mile 345 kV line from Kiowa to Hobbs.  
**Network Upgrade Owner:** SPS  
**MOPC Representative(s):** William Grant  
**TWG Representative:** John Fulton  
**Reason for Change:** The CPE(s) for this project was determined to meet the requirements of Condition No. 1 of NTC-C No. 200283. Therefore, the conditions of the project are removed.  
**Categorization:** High priority  
**Network Upgrade Specification:** All elements and conductor must have at least an emergency rating of 1792 MVA.  
**Network Upgrade Justification:** To address needs identified in HPILS.





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**Estimated Cost for Network Upgrade (current day dollars):** \$59,808,956  
**Cost Allocation of the Network Upgrade:** Base Plan  
**Estimated Cost Source:** SPS  
**Date of Estimated Cost:** 11/18/2014

**Previous NTC Number:** 200283  
**Previous NTC Issue Date:** 5/19/2014  
**Project ID:** 30638  
**Project Name:** Multi - Kiowa - North Loving - China Draw 345/115 kV Ckt 1  
**Need Date for Project:** 6/1/2018  
**Estimated Cost for Project:** \$67,617,399

**Network Upgrade ID:** 50852  
**Network Upgrade Name:** North Loving 345/115 kV Ckt 1 Transformer  
**Network Upgrade Description:** Install new 345/115 kV 448 MVA transformer at new North Loving substation. Install any necessary 115 kV terminal equipment.  
**Network Upgrade Owner:** SPS  
**MOPC Representative(s):** William Grant  
**TWG Representative:** John Fulton  
**Reason for Change:** The CPE(s) for this project was determined to meet the requirements of Condition No. 1 of NTC-C No. 200283. Therefore, the conditions of the project are removed.  
**Categorization:** High priority  
**Network Upgrade Specification:** All elements and conductor must have at least an emergency rating of 448 MVA.  
**Network Upgrade Justification:** To address needs identified in HPILS.  
**Estimated Cost for Network Upgrade (current day dollars):** \$5,950,217  
**Cost Allocation of the Network Upgrade:** Base Plan  
**Estimated Cost Source:** SPS  
**Date of Estimated Cost:** 11/18/2014

**Network Upgrade ID:** 50854  
**Network Upgrade Name:** North Loving 345 kV Terminal Upgrades  
**Network Upgrade Description:** Install 345 kV line terminals at North Loving substation for Kiowa and China Draw. Install any necessary 345 kV terminal equipment necessary to install 345/115 kV 448 MVA transformer at North Loving.  
**Network Upgrade Owner:** SPS  
**MOPC Representative(s):** William Grant  
**TWG Representative:** John Fulton  
**Reason for Change:** The CPE(s) for this project was determined to meet the requirements of Condition No. 1 of NTC-C No. 200283. Therefore, the conditions of the



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project are removed.

**Categorization:** High priority

**Network Upgrade Specification:** All elements and conductor must have at least an emergency rating of 1792 MVA.

**Network Upgrade Justification:** To address needs identified in HPILS.

**Estimated Cost for Network Upgrade (current day dollars):** \$7,873,653

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

**Estimated Cost Source:** SPS

**Date of Estimated Cost:** 11/18/2014

**Network Upgrade ID:** 50819

**Network Upgrade Name:** China Draw - North Loving 345 kV Ckt 1

**Network Upgrade Description:** Construct new 18.2-mile 345 kV line from North Loving to China Draw.

**Network Upgrade Owner:** SPS

**MOPC Representative(s):** William Grant

**TWG Representative:** John Fulton

**Reason for Change:** The CPE(s) for this project was determined to meet the requirements of Condition No. 1 of NTC-C No. 200283. Therefore, the conditions of the project are removed.

**Categorization:** High priority

**Network Upgrade Specification:** All elements and conductor must have at least an emergency rating of 1792 MVA.

**Network Upgrade Justification:** To address needs identified in HPILS.

**Estimated Cost for Network Upgrade (current day dollars):** \$19,255,234

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

**Estimated Cost Source:** SPS

**Date of Estimated Cost:** 11/18/2014

**Network Upgrade ID:** 50820

**Network Upgrade Name:** Kiowa - North Loving 345 kV Ckt 1

**Network Upgrade Description:** Construct new 20.4-mile 345 kV line from new Kiowa substation to North Loving.

**Network Upgrade Owner:** SPS

**MOPC Representative(s):** William Grant

**TWG Representative:** John Fulton

**Reason for Change:** The CPE(s) for this project was determined to meet the requirements of Condition No. 1 of NTC-C No. 200283. Therefore, the conditions of the project are removed.

**Categorization:** High priority

**Network Upgrade Specification:** All elements and conductor must have at least an



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emergency rating of 1792 MVA.

**Network Upgrade Justification:** To address needs identified in HPILS.

**Estimated Cost for Network Upgrade (current day dollars):** \$25,716,516

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

**Estimated Cost Source:** SPS

**Date of Estimated Cost:** 11/18/2014

**Network Upgrade ID:** 50849

**Network Upgrade Name:** China Draw 345/115 kV Ckt 1 Transformer

**Network Upgrade Description:** Install new 345/115 kV 448 MVA transformer at new China Draw substation. Install any necessary 115 kV terminal equipment and ring/breaker and a half 115 kV bus for 4 line or transformer terminals.

**Network Upgrade Owner:** SPS

**MOPC Representative(s):** William Grant

**TWG Representative:** John Fulton

**Reason for Change:** The CPE(s) for this project was determined to meet the requirements of Condition No. 1 of NTC-C No. 200283. Therefore, the conditions of the project are removed.

**Categorization:** High priority

**Network Upgrade Specification:** All elements and conductor must have at least an emergency rating of 448 MVA.

**Network Upgrade Justification:** To address needs identified in HPILS.

**Estimated Cost for Network Upgrade (current day dollars):** \$4,649,045

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

**Estimated Cost Source:** SPS

**Date of Estimated Cost:** 11/18/2014

**Network Upgrade ID:** 50850

**Network Upgrade Name:** China Draw 345 kV Ckt 1 Terminal Upgrades

**Network Upgrade Description:** Construct 345 kV ring bus, expandable to breaker and a half for 6 line or transformer terminals at China Draw.

**Network Upgrade Owner:** SPS

**MOPC Representative(s):** William Grant

**TWG Representative:** John Fulton

**Reason for Change:** The CPE(s) for this project was determined to meet the requirements of Condition No. 1 of NTC-C No. 200283. Therefore, the conditions of the project are removed.

**Categorization:** High priority

**Network Upgrade Specification:** All elements and conductor must have at least an emergency rating of 1792 MVA.

**Network Upgrade Justification:** To address needs identified in HPILS.





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**Estimated Cost for Network Upgrade (current day dollars):** \$4,172,734  
**Cost Allocation of the Network Upgrade:** Base Plan  
**Estimated Cost Source:** SPS  
**Date of Estimated Cost:** 11/18/2014

**Previous NTC Number:** 200283  
**Previous NTC Issue Date:** 5/19/2014  
**Project ID:** 30639  
**Project Name:** Multi - Potash Junction - Road Runner 345 kV Conv. and Transformers at Kiowa and Road Runner  
**Need Date for Project:** 6/1/2018  
**Estimated Cost for Project:** \$23,178,991

**Network Upgrade ID:** 50862  
**Network Upgrade Name:** Road Runner 345/115 kV Ckt 1 Transformer  
**Network Upgrade Description:** Install new 345/115 kV 448 MVA transformer at new Road Runner substation. Install any necessary 115 kV terminal equipment.  
**Network Upgrade Owner:** SPS  
**MOPC Representative(s):** William Grant  
**TWG Representative:** John Fulton  
**Reason for Change:** The CPE(s) for this project was determined to meet the requirements of Condition No. 1 of NTC-C No. 200283. Therefore, the conditions of the project are removed.  
**Categorization:** High priority  
**Network Upgrade Specification:** All elements and conductor must have at least an emergency rating of 448 MVA.  
**Network Upgrade Justification:** To address needs identified in HPILS.  
**Estimated Cost for Network Upgrade (current day dollars):** \$3,989,689  
**Cost Allocation of the Network Upgrade:** Base Plan  
**Estimated Cost Source:** SPS  
**Date of Estimated Cost:** 11/18/2014

**Network Upgrade ID:** 50863  
**Network Upgrade Name:** Road Runner 345 kV Substation Conversion  
**Network Upgrade Description:** Convert 230 kV Road Runner substation to 345 kV. Install any necessary 345 kV terminal equipment.  
**Network Upgrade Owner:** SPS  
**MOPC Representative(s):** William Grant  
**TWG Representative:** John Fulton  
**Reason for Change:** The CPE(s) for this project was determined to meet the requirements of Condition No. 1 of NTC-C No. 200283. Therefore, the conditions of the



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project are removed.

**Categorization:** High priority

**Network Upgrade Specification:** All elements and conductor must have at least an emergency rating of 1792 MVA.

**Network Upgrade Justification:** To address needs identified in HPILS.

**Estimated Cost for Network Upgrade (current day dollars):** \$11,569,711

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

**Estimated Cost Source:** SPS

**Date of Estimated Cost:** 11/18/2014

**Network Upgrade ID:** 50868

**Network Upgrade Name:** Kiowa 345/115 kV Ckt 1 Transformer

**Network Upgrade Description:** Install 345/115 kV 448 MVA transformer at Kiowa substation.

**Network Upgrade Owner:** SPS

**MOPC Representative(s):** William Grant

**TWG Representative:** John Fulton

**Reason for Change:** The CPE(s) for this project was determined to meet the requirements of Condition No. 1 of NTC-C No. 200283. Therefore, the conditions of the project are removed. The low-side voltage level of the transformer is also changed from 230 kV to 115 kV to be consistent with the assumptions in HPILS.

**Categorization:** High priority

**Network Upgrade Specification:** All elements and conductor must have at least an emergency rating of 448 MVA.

**Network Upgrade Justification:** To address needs identified in HPILS.

**Estimated Cost for Network Upgrade (current day dollars):** \$5,443,140

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

**Estimated Cost Source:** SPS

**Date of Estimated Cost:** 11/18/2014

**Network Upgrade ID:** 50871

**Network Upgrade Name:** Kiowa - Potash Junction 345/115 kV Ckt 1

**Network Upgrade Description:** Construct 1-mile of double circuit structures from the new Kiowa substation to Potash Junction. Construct Circuit 1 with 345 kV conductor and Circuit 2 with 115 kV conductor.

**Network Upgrade Owner:** SPS

**MOPC Representative(s):** William Grant

**TWG Representative:** John Fulton

**Reason for Change:** The CPE(s) for this project was determined to meet the requirements of Condition No. 1 of NTC-C No. 200283. Therefore, the conditions of the project are removed. The Network Upgrade Description is also modified to be consistent



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with the assumptions in HPILS.

**Categorization:** High priority

**Network Upgrade Specification:** For Circuit 1, all elements and conductor must have at least an emergency rating of 1792 MVA. For Circuit 2, all elements and conductor must have at least an emergency rating of 304 MVA.

**Network Upgrade Justification:** To address needs identified in HPILS.

**Estimated Cost for Network Upgrade (current day dollars):** \$2,176,451

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

**Estimated Cost Source:** SPS

**Date of Estimated Cost:** 11/18/2014

**Previous NTC Number:** 200283

**Previous NTC Issue Date:** 5/19/2014

**Project ID:** 30695

**Project Name:** Multi - Livingston Ridge - Sage Brush - Lagarto - Cardinal 115 kV

**Need Date for Project:** 6/1/2018

**Estimated Cost for Project:** \$40,331,466

**Network Upgrade ID:** 50924

**Network Upgrade Name:** Livingston Ridge 115 kV Substation Conversion

**Network Upgrade Description:** Convert Livingston Ridge from 69 kV to 115 kV. Install any necessary 115 kV terminal equipment.

**Network Upgrade Owner:** SPS

**MOPC Representative(s):** William Grant

**TWG Representative:** John Fulton

**Reason for Change:** The CPE(s) for this project was determined to meet the requirements of Condition No. 1 of NTC-C No. 200283. Therefore, the conditions of the project are removed.

**Categorization:** High priority

**Network Upgrade Specification:** All elements and conductor must have at least an emergency rating of 304 MVA.

**Network Upgrade Justification:** To address needs identified in HPILS.

**Estimated Cost for Network Upgrade (current day dollars):** \$4,950,983

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

**Estimated Cost Source:** SPS

**Date of Estimated Cost:** 11/18/2014

**Network Upgrade ID:** 50925

**Network Upgrade Name:** Sage Brush 115 kV Substation

**Network Upgrade Description:** Construct new 115 kV Sage Brush substation with 3 ring bus configuration. Install any necessary 115 kV terminal equipment.



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**Network Upgrade Owner:** SPS

**MOPC Representative(s):** William Grant

**TWG Representative:** John Fulton

**Reason for Change:** The CPE(s) for this project was determined to meet the requirements of Condition No. 1 of NTC-C No. 200283. Therefore, the conditions of the project are removed.

**Categorization:** High priority

**Network Upgrade Specification:** All elements and conductor must have at least an emergency rating of 304 MVA.

**Network Upgrade Justification:** To address needs identified in HPILS.

**Estimated Cost for Network Upgrade (current day dollars):** \$3,822,672

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

**Estimated Cost Source:** SPS

**Date of Estimated Cost:** 11/18/2014

**Network Upgrade ID:** 50926

**Network Upgrade Name:** Livingston Ridge - Sage Brush 115 kV Ckt 1

**Network Upgrade Description:** Construct new 13.9-mile 115 kV line from Livingston Ridge to new Sage Brush substation.

**Network Upgrade Owner:** SPS

**MOPC Representative(s):** William Grant

**TWG Representative:** John Fulton

**Reason for Change:** The CPE(s) for this project was determined to meet the requirements of Condition No. 1 of NTC-C No. 200283. Therefore, the conditions of the project are removed.

**Categorization:** High priority

**Network Upgrade Specification:** All elements and conductor must have at least an emergency rating of 304 MVA.

**Network Upgrade Justification:** To address needs identified in HPILS.

**Estimated Cost for Network Upgrade (current day dollars):** \$8,811,206

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

**Estimated Cost Source:** SPS

**Date of Estimated Cost:** 11/18/2014

**Network Upgrade ID:** 50927

**Network Upgrade Name:** Lagarto 115 kV Substation

**Network Upgrade Description:** Construct new 115 kV Lagarto substation. Install any necessary 115 kV terminal equipment.

**Network Upgrade Owner:** SPS

**MOPC Representative(s):** William Grant

**TWG Representative:** John Fulton



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**Reason for Change:** The CPE(s) for this project was determined to meet the requirements of Condition No. 1 of NTC-C No. 200283. Therefore, the conditions of the project are removed.

**Categorization:** High priority

**Network Upgrade Specification:** All elements and conductor must have at least an emergency rating of 304 MVA.

**Network Upgrade Justification:** To address needs identified in HPILS.

**Estimated Cost for Network Upgrade (current day dollars):** \$1,200,057

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

**Estimated Cost Source:** SPS

**Date of Estimated Cost:** 11/18/2014

**Network Upgrade ID:** 50928

**Network Upgrade Name:** Lagarto - Sage Brush 115 kV Ckt 1

**Network Upgrade Description:** Construct new 10.4-mile 115 kV line from new Lagarto substation to new Sage Brush substation.

**Network Upgrade Owner:** SPS

**MOPC Representative(s):** William Grant

**TWG Representative:** John Fulton

**Reason for Change:** The CPE(s) for this project was determined to meet the requirements of Condition No. 1 of NTC-C No. 200283. Therefore, the conditions of the project are removed.

**Categorization:** High priority

**Network Upgrade Specification:** All elements and conductor must have at least an emergency rating of 304 MVA.

**Network Upgrade Justification:** To address needs identified in HPILS.

**Estimated Cost for Network Upgrade (current day dollars):** \$6,186,323

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

**Estimated Cost Source:** SPS

**Date of Estimated Cost:** 11/18/2014

**Network Upgrade ID:** 50951

**Network Upgrade Name:** Cardinal 115 kV Substation

**Network Upgrade Description:** Construct new 115 kV Cardinal substation. Install any necessary 115 kV terminal equipment.

**Network Upgrade Owner:** SPS

**MOPC Representative(s):** William Grant

**TWG Representative:** John Fulton

**Reason for Change:** The CPE(s) for this project was determined to meet the requirements of Condition No. 1 of NTC-C No. 200283. Therefore, the conditions of the project are removed.





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## SPP-NTC-200309

**Categorization:** High priority

**Network Upgrade Specification:** All elements and conductor must have at least an emergency rating of 304 MVA.

**Network Upgrade Justification:** To address needs identified in HPILS.

**Estimated Cost for Network Upgrade (current day dollars):** \$6,115,613

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

**Estimated Cost Source:** SPS

**Date of Estimated Cost:** 11/18/2014

**Network Upgrade ID:** 50967

**Network Upgrade Name:** Cardinal - Lagarto 115 kV Ckt 1

**Network Upgrade Description:** Construct new 17.5-mile 115 kV line from Lagarto to Cardinal.

**Network Upgrade Owner:** SPS

**MOPC Representative(s):** William Grant

**TWG Representative:** John Fulton

**Reason for Change:** The CPE(s) for this project was determined to meet the requirements of Condition No. 1 of NTC-C No. 200283. Therefore, the conditions of the project are removed.

**Categorization:** High priority

**Network Upgrade Specification:** All elements and conductor must have at least an emergency rating of 304 MVA.

**Network Upgrade Justification:** To address needs identified in HPILS.

**Estimated Cost for Network Upgrade (current day dollars):** \$9,244,612

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

**Estimated Cost Source:** SPS

**Date of Estimated Cost:** 11/18/2014

**Previous NTC Number:** 200283

**Previous NTC Issue Date:** 5/19/2014

**Project ID:** 30717

**Project Name:** Line - Hopi Sub - North Loving - China Draw 115 kV Ckt 1

**Need Date for Project:** 6/1/2015

**Estimated Cost for Project:** \$23,264,106

**Network Upgrade ID:** 50870

**Network Upgrade Name:** Hopi Sub - North Loving 115 kV Ckt 1

**Network Upgrade Description:** Construct new 9.5-mile 115 kV line from Hopi Sub to North Loving 115 kV.

**Network Upgrade Owner:** SPS

**MOPC Representative(s):** William Grant



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## SPP-NTC-200309

**TWG Representative:** John Fulton

**Reason for Change:** The CPE(s) for this project was determined to meet the requirements of Condition No. 1 of NTC-C No. 200283. Therefore, the conditions of the project are removed.

**Categorization:** High priority

**Network Upgrade Specification:** All elements and conductor must have at least an emergency rating of 304 MVA.

**Network Upgrade Justification:** To address needs identified in HPILS.

**Estimated Cost for Network Upgrade (current day dollars):** \$9,980,879

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

**Estimated Cost Source:** SPS

**Date of Estimated Cost:** 11/18/2014

**Network Upgrade ID:** 50883

**Network Upgrade Name:** China Draw - North Loving 115 kV Ckt 1

**Network Upgrade Description:** Construct new 19.7-mile 115 kV line from North Loving to China Draw.

**Network Upgrade Owner:** SPS

**MOPC Representative(s):** William Grant

**TWG Representative:** John Fulton

**Reason for Change:** The CPE(s) for this project was determined to meet the requirements of Condition No. 1 of NTC-C No. 200283. Therefore, the conditions of the project are removed.

**Categorization:** High priority

**Network Upgrade Specification:** All elements and conductor must have at least an emergency rating of 304 MVA.

**Network Upgrade Justification:** To address needs identified in HPILS.

**Estimated Cost for Network Upgrade (current day dollars):** \$13,283,227

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

**Estimated Cost Source:** SPS

**Date of Estimated Cost:** 11/18/2014

## Withdrawal of Upgrades

**Previous NTC Number:** 200283

**Previous NTC Issue Date:** 5/19/2014

**Project ID:** 30376

**Project Name:** Multi - Tuco - Yoakum - Hobbs 345/230 kV Ckt 1

**Network Upgrade ID:** 50919

**Network Upgrade Name:** Yoakum 345 kV Ckt 1 Terminal Upgrades



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## **SPP-NTC-200309**

**Network Upgrade Description:** Install any necessary 345 kV terminal equipment at Yoakum associated with new 345/230 kV transformer.

**Reason for Change:** This Network Upgrade was originally defined to capture the 345 kV terminal equipment required to install the new Yoakum 345/230 kV transformer (Network Upgrade No. 30376). The project scope and all associated costs of this Network Upgrade have been transferred to Network Upgrade No. 50447. As a result, this Network Upgrade is no longer needed.

### **Withdrawal of Network Upgrade**

SPS 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 NTC, pursuant to Attachment O, Section VI.6 of the SPP OATT, in addition to providing a construction schedule for the Network Upgrade(s). Failure to provide a sufficient 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) included in 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 SPS's part to complete the approved Network Upgrade(s). For project tracking, SPP requires SPS to submit status updates of the Network Upgrade(s) quarterly in conjunction with the SPP Board of Directors meetings. However, SPS shall also advise SPP of any inability to comply with the Project Schedule as soon as the inability becomes apparent.



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**SPP-NTC-200309**

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 'Lanny Nickell'.

Lanny Nickell  
Vice President, Engineering  
Phone: (501) 614-3232 • Fax: (501) 482-2022 • [lnickell@spp.org](mailto:lnickell@spp.org)

cc: Carl Monroe - SPP  
Antoine Lucas - SPP  
William Grant - SPS