

**Status of PNM's Transmission Studies  
5/28/2010**

OASIS ID	TSR #	CO	MW	POR	POD	Date	OASIS Rqst Rcvd	Application Received	Application Perfected	System Impact Study Agreement executed	Facilities Study Agreement executed	Comments
TSS-2008-18	71701729	EEA	300	Guad345	FC345	1/1/10 to 1/1/60	11/6/07	12/6/2008	12/6/2008	N/A	1/10/10	Facilities Study in progress/pending
TSS-2008-19	72608299	CRGL	200	BW345	FC345	1/1/11 to 12/31/15	10/24/08	12/27/08	10/27/08	1/13/09		System Impact Study in progress/pending
TSS-2008-20	72639713	AWP	170	Guad345	FC345	10/1/11 to 10/1/16	11/6/08	11/17/08	12/4/08			execution extension requested and granted
TSS-2008-21	72639795	AWP	130	Guad345	FC345	10/1/11 to 10/1/16	11/6/08	11/17/08	12/4/08			execution extension requested and granted
TSS-2008-22	72647626	WWPP	37	ABQ	FC345	12/1/10 to 12/1/40	11/10/08	11/4/08	1/23/09	3/27/09	12/22/09	Facilities Study in progress/pending
TSS2008-24	72682545	BWND	110	ABQ	FC345	4/1/11 to 4/1/31	11/24/08	12/10/08	1/14/09	4/2/09		System Impact Study in progress/pending
TSS-200-25	72682553	BWND	85	ABQ	FC345	4/1/11 to 4/1/31	11/24/08	12/10/08	1/14/09	4/2/09		System Impact Study in progress/pending
TSS-2008-26	72682588	BWND	150	ABQ	FC345	4/1/11 to 4/1/31	11/24/08	12/10/08	1/14/09	4/2/09		System Impact Study in progress/pending
TSS-2009-01	72827161	CRGL	100	BW230	FC345	1/1/12 to 12/31/16	1/22/09	1/27/09	1/27/09	7/27/09		System Impact Study in progress/pending
TSS-2009-02	72831217	AWP	170	Guad345	FC345	3/1/12 to 3/1/17	1/23/09	1/27/09	1/27/09			execution extension requested and granted
TSS-2009-03	72831221	AWP	130	Guad345	FC345	10/1/12 to 10/1/17	1/23/09	1/27/09	1/27/09			execution extension requested and granted
TSS-2009-04	73111345	BWND	100	ABQ	FC345	1/01/13 to 1/01/18	5/26/09	6/15/09	6/15/09	8/18/09		System Impact Study in progress/pending
TSS-2009-05	73111347	BWND	100	ABQ	FC345	7/01/13 to 7/01/18	5/26/09	6/15/09	6/15/09	8/18/09		System Impact Study in progress/pending
TSS-2009-06	73111348	BWND	100	ABQ	FC345	1/01/14 to 1/01/19	5/26/09	6/15/09	6/15/09	8/18/09		System Impact Study in progress/pending
TSS2009-07	73111351	BWND	100	ABQ	FC345	7/01/14 to 7/01/19	5/26/09	6/15/09	6/15/09	8/18/09		System Impact Study in progress/pending
TSS2009-08	73111354	BWND	100	ABQ	FC345	1/01/15 to 1/01/20	5/26/09	6/15/09	6/15/09	8/18/09		System Impact Study in progress/pending
TSS2009-09	73111356	BWND	100	ABQ	FC345	7/01/15 to 7/01/20	5/26/09	6/15/09	6/15/09	8/18/09		System Impact Study in progress/pending
TSS-2009-10	73111357	BWND	100	ABQ	FC345	1/01/16 to 1/01/21	5/26/09	6/15/09	6/15/09	8/18/09		System Impact Study in progress/pending
TSS-2009-11	73111358	BWND	100	ABQ	FC345	7/01/16 to 7/01/21	5/26/09	6/15/09	6/15/09	8/18/09		System Impact Study in progress/pending

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TSS-2009-12	73111359	BWND	100	ABQ	FC345	7/01/12 to 7/01/17	5/26/09	6/15/09	6/15/09	8/18/09		System Impact Study in progress/pending
TSS-2009-13	73111363	BWND	100	ABQ	FC345	1/01/13 to 1/01/18	5/26/09	6/15/09	6/15/09	8/18/09		System Impact Study in progress/pending
TSS-2009-14	73111364	BWND	100	ABQ	FC345	7/01/13 to 7/01/18	5/26/09	6/15/09	6/15/09	8/18/09		System Impact Study in progress/pending
TSS-2009-15	73152312	TPW	100	Ojo345	FC345	1/01/11 to 1/01/36	6/12/09	6/1/09	6/1/09	4/19/10 Posted		Original TSR was for 100 MW, executed TSA for 80 MW, TSA for 20 MW tendered.
TSS-2009-16	73152318	TPW	50	Ojo345	FC345	1/01/11 to 1/01/36	6/12/09	6/1/09	6/1/09	8/25/09		System Impact Study in progress/pending
TSS-2009-17	73152323	TPW	50	Ojo345	FC345	1/01/11 to 1/01/36	6/12/09	6/1/09	6/1/09	8/25/09		System Impact Study in progress/pending
TSS-2009-19	73188209	INVM	70	Storlk115	SJ2345	11/01/10 to 11/01/15	6/26/09	7/8/09	7/8/09	7/31/09		System Impact Study in progress/pending
TSS-2009-22	73440347	PPMI	100	Guad345	FC345	7/01/12 to 7/01/19	9/25/09	10/8/09	10/23/09	12/9/09		System Impact Study in progress/pending
TSS-2009-23	73440366	PPMI	100	Guad345	FC345	7/01/12 to 7/01/19	9/25/09	10/8/09	10/23/09	12/9/09		System Impact Study in progress/pending
TSS-2009-24	73440384	PPMI	100	Guad345	FC345	7/01/13 to 7/01/20	9/25/09	10/8/09	10/23/09	12/9/09		System Impact Study in progress/pending
TSS-2009-25	73440393	PPMI	100	Guad345	FC345	7/01/13 to 7/01/20	9/25/09	10/8/09	10/23/09	12/9/09		System Impact Study in progress/pending
TSS-2009-26	73440405	PPMI	100	Guad345	FC345	7/01/14 to 7/01/21	9/25/09	10/8/09	10/23/09	12/9/09		System Impact Study in progress/pending
TSS-2010-04	74080949	EPEC	104	FC345	WM345	7/1/10 to 7/1/17	4/22/10	Rollover				TSA tendered 5/18/10
TSS-2009-15	74116382	TPW	20	Ojo345	FC345	1/1/11 to 1/1/36						TSA executed, related to TSR # 73152312.
TSS-2010-05	74138343	FPLP	102	Ambro230	FC345	1/1/11 to 1/1/16	5/5/10	5/17/10	5/17/10			TSA tendered 5/25/10
TSS-2010-06	74138356	FPLP	300	Ambro230	FC345	1/1/13 to 1/1/18	5/5/10	5/17/10	5/17/10			TSISA tendered 5/25/10
<b>WITHDRAWN</b>												
TSS-2009-20	73381004	FPLP	300	Ambro230	FC345	1/01/13 to 1/01/18	9/3/09	9/14/09	9/14/09	10/28/09		
TSS-2009-21	73381007	FPLP	300	Ambro230	FC345	1/01/14 to 1/01/19	9/3/09	9/14/09	9/14/09	10/28/09		
TSS-2010-03	74044257	CRGL	25	BW235	FC345	1/1/13 to 1/1/18	4/12/10					

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TSS-2010-01	74004846	FPLP	102	Ambro230	FC345	1/1/12 to 1/1/17	3/31/10	4/5/10	4/5/10			
TSS-2010-02	74044602	FPLP	300	Ambro230	FC345	1/1/13 to 1/1/18	4/12/10	4/21/10	4/21/10			

**TRANSMISSION SYSTEM STUDIES INITIATED BY PNM**  
**RELATED TO THE NEW MEXICO TRANSMISSION SYSTEM**

**Study Type: Facility Addition (TS-PNM-2007-01)**  
**Requestor: PNM self-initiated studies**  
**Location: High Plains Express Transmission Project**

The High Plains Express Transmission Project (HPX) is a proactive plan for the expansion and reinforcement of the transmission grid in the states of Wyoming, Colorado, New Mexico and Arizona. The goal is to develop a high-voltage, backbone transmission system that will enhance reliability and increase access to renewable and other diverse generation resources within regional energy resource zones. The first phase of the HPX is a joint participation feasibility study that will explore transmission alternatives. Nine parties (Colorado Springs Utilities, Platte River Power Authority, Public Service Company of New Mexico, Salt River Project, Trans-Elect Development Company, Tri-State Generation and Transmission Association, Western Area Power Administration, New Mexico Renewable Energy Transmission Authority and Xcel Energy) have participated in the first phase which was completed in June 2008.

The potential exists for multiple benefits related to this collaboration that will extend to many customers which include:

- Provide economic access to additional, diverse resources to meet rapid load growth;
- Provide resource developers with increased transmission capability to reach markets;
- Improve overall regional electric reliability;
- Increase import and export transfer capabilities;
- Minimize environmental impacts by sharing utility corridors;
- Help states meet renewable energy standards.
- HXP web page link: <http://www.highplainsexpress.com/>

**Study Type: Alamogordo Substation 115 kV Tap (TP-2007-04)**  
**Requestor: PNM**  
**Location: Otero County**

This project will provide a third 115 kV source into the existing Alamogordo substation and a second source into the EPE Holloman substation by interconnecting the PNM and EPE 115 kV transmission systems together through a new 5-mile line between Holloman and Alamogordo. This project will support loads served by PNM, EPE and Tri-State by improving post-contingency voltage conditions in the Alamogordo and Ruidoso areas, and providing a continuous dual feed to EPE's Holloman substation. The project in-service-date is Fall 2010.

**Study Type: Rio Puerco Expansion (TP-2008-01)**  
**Requestor: PNM**  
**Location: Sandoval County**

On March 20, 2008, PNM filed with the NMPRC a request under NMPRC Rule 440 to development of a new 345 kV and 115 kV switching station by expanding PNM's existing Rio Puerco series capacitor station. This project will also consist of the installation of a 345-115 kV bulk transformer, the construction of 13 miles of 115 kV line, and ground clearance improvements to the existing Veranda to Corrales Bluff 115 kV line to allow for a higher thermal ampacity rating.

The purpose of this project is to improve system reliability and provide the needed additional transmission delivery source into the fast growing area of southwest Sandoval County (Northwest Albuquerque and the City of Rio Rancho area) by 2010 to comply with NERC, WECC and PNM Planning and Performance Criteria. The project in-service date is Fall 2010.

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**Study Type: Installation of a 25 Mvar Shunt Capacitor Bank (TP-2008-05)**

**Requestor: PNM**

**Location: Yah-Ta- Hey Switching Station**

On July 3, 2008, PNM filed with the NMPRC a request under NMPRC Rule 440 to install a 25 Mvar shunt capacitor bank at the Yah-Ta-Hey 115kV switching station to address near-term transmission system voltage problems to comply with NERC, WECC and PNM Planning and Performance Criteria. This upgrade will add voltage support to PNM's electric transmission system servicing western New Mexico and will maintain adequate and reliable service to existing loads located on that portion of the system.

The target completion date for the line upgrade is 2010.

**Study Type: Expansion/Upgrade of the Willard 115 kV Station (TP-2008-07)**

**Requestor: PNM**

**Location: Willard 115 kV Station**

On August 15, 2008, PNM filed with the NMPRC a request under NMPRC Rule 440 complete certain transmission system enhancements/upgrades in association with the interconnection of the High Lonesome Mesa, LLC ("HLM")<sup>1</sup> 100 MW nameplate capacity wind-powered electric generation facility (wind generator). The wind generator will be located approximately 13 miles south of the Tri-State Generation and Transmission Association, Inc. ("Tri-State") Willard 115 kV Switching Station ("Willard Station"), near Willard, New Mexico, and will interconnect to the PNM transmission system via Willard Station.

PNM will complete (or cause to be completed) the following transmission system enhancement/upgrades:

- Expansion/upgrade of the Tri-State owned Willard Station, near Willard, New Mexico.
- Upgrade of the PNM owned Willard to Algodones ("AW") 115 kV Line.
- Rebuild of the PNM owned Willard to Belen ("WL") 115 kV Line.
- Installation of a flow control device at the PNM owned Belen 115 kV Switching Station on the Tri-State owned Belen-Socorro 115 kV Line.

HLM has a firm point-to-point transmission service of 100 MW from the wind generator interconnection to the Four Corners 345 kV Switchyard. However, HLM will not be able to fully utilize the 100 MW of transmission service until the PNM transmission system improvements (i.e., the AW 115 kV Line upgrade, rebuild of the WL 115 kV Line, and installation of a flow control device at Belen 115 kV Switching Station on the Belen – Socorro 115 kV Line) are completed. Until that occurs, conditional firm transmission service will be provided, and the wind generator output will be controlled in response to system reliability directives (either electronic or verbal) issued by PNM.

The HLM has been on-line since May 2009. Updates for the remaining transmission system improvements items are listed below:

- Rebuild of the PNM owned Willard to Belen ("WL") 115 kV Line by May 2010 - completed
- Installation of a flow control device at the PNM owned Belen 115 kV Switching Station on the Tri-State owned Belen-Socorro 115 kV Line by March 2011 - completed

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<sup>1</sup> On August 11, 2008 an Large Generator Interconnection Agreement (pursuant to the PNM OATT) was executed between PNM and HLM.

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**Study Type: Mendoza Substation (TP-2008-09)**

**Requestor: PNM**

**Location: Cibola County, NM**

On April 21, 2010, PNM filed with the NMPRC a request under NMPRC Rule 440 to install and interconnect a distribution substation ("PNM Mendoza Substation" or "Substation") to serve the City of Gallup ("Gallup"). The PNM Mendoza Substation will be located approximately four (4) miles west of the Fort Wingate Substation near Red Rock State Park. The Substation will be interconnected to the Tri-State Generation and Transmission Cooperative Association, Inc. ("Tri-State") 115 kV line facilities.

The purpose of the project is to improve system reliability and provide additional distribution substation capacity in the City of Gallup located in McKinley County by May 2011.

**Study Type: Red Mesa Switching Station (TP-2010-01)**

**Requestor: PNM**

**Location: Cibola County, NM**

On May 14, 2010, PNM filed with the NMPRC a request under NMPRC Rule 440 to complete certain transmission system enhancement/upgrades association with the interconnection of the NextEra Energy Resources LLC ("NextEra") 102 MW wind generation facility ("Red Mesa Switching Station"). The Switching Station will be located approximately 7 miles west of PNM's Marquez Tap on the 115 kV KM transmission line.

The purpose of this project is to provide interconnection of a 102 MW wind generation facility to PNM's 115 kV West Mesa-Ambrosia transmission line by NextEra by October 2010.

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Copies of the completed transmission studies can be found on PNM's OASIS site.