

## **APPENDIX F**

### **SUPPORTING INFORMATION ON DEVELOPMENT ACTIVITIES INCLUDED IN THE REASONABLE FORESEEABLE DEVELOPMENT**



Project	Status	Description
<b>Oil and Gas Related Projects</b>		
Oil and Gas Drilling	Ongoing	The Resource Management Plan for the lands managed by the BLM Farmington Office indicates development of 9,942 new oil and gas wells from 2003 and 2023 in the San Juan Basin, allowing for about 16,100 acres of long-term disturbance.
Oil and Gas Development – Navajo Reservation.	Proposed	These activities would require well pads, construction areas, access roads, pipelines, or distribution power lines as needed. Western Oil and Gas has proposed approximately 600 natural gas wells in eastern Burnham Chapter extending north into Upper Fruitland and Nenahnezad/San Juan Chapters.
San Juan River Gas Plant	Existing – change in operations	Giant owns and operates the Bloomfield oil and gas refinery, located on 285 acres near Farmington, New Mexico. Closed in 2010 and future operations are uncertain.
<b>Power Plants and Transmission Lines</b>		
Four Corners Power Plant (FCPP)	Existing/Change in Operations in 2014	<p>In compliance with EPA’s BART determination, APS shut down FCPP Units 1-3 in December 2013 and will install SCR controls on Units 4 and 5 by 2018 to meet an emission limit for NO<sub>x</sub> of 0.098 lb/MMBtu. Closure of Units 1-3 reduced the total output capacity of the power plant by one third from 2060 MW to 1500 MW. SCR operation will require the transport of urea from Colorado to FCPP via daily truck trips.</p> <p>Per the FCPP/NMEP EIS ROD, BIA permitted the construction of a 350 acre “super cell” DFADA within the FCPP lease area. This facility will serve as the disposal site for all CCRs produced at FCPP, with the exception of a gypsum board producer that transports approximately 20 percent (~ 240,000 tons per year) of FCPP CCRs off-site for beneficial reuse.</p>
San Juan Generating Station (SJGS)	Existing/Change in Operations in 2014	In May 2014, EPA withdrew the FIP for SJGS due to the Agency’s approval of revisions to the New Mexico Regional Haze SIP, which includes BART requirements for NO <sub>x</sub> emissions for SJGS. To comply with this ruling, SJGS will install selective non-catalytic reduction (SNCR) controls on all four units by 2016 and shutdown Units 2 and 3 in 2017. The SNCR is expected to result in an estimated reduction of 4,900 tpy in NO <sub>x</sub> emissions, beginning no later than 5 years after EPA approves the State’s BART determination.

Project	Status	Description
Electric Transmission System Expansion	Proposed	Variety of projects including Navajo Transmission Project and San Juan Basin Interconnect Project proposed to expand the capacity of electric transmission across New Mexico to move renewable power, shift gas-fired compressors to electricity, and meet increased electric demand in the San Juan Basin.
Electric Power Expansion	Proposed or under consideration	Coal-fired generation for other coal-based development on Navajo or Ute reservations power, renewable generation such as solar and pumped storage hydro.
<b>Coal Mining Projects</b>		
Navajo Mine	Ongoing	<p>Supplies coal exclusively to Four Corners Generating Station. Total of 24,550 acres mined over 50 years. Mining activities in Areas I and II have concluded. Reclamation is ongoing in Area II. Area III is actively mined in two pits with contemporaneous reclamation.</p> <p>Future Development at Navajo Mine includes the remainder of Area IV North and IV South. BNCC is required by its coal lease with the Navajo Nation to seek development opportunities to market the coal within BNCC's lease. One such source is the coal sales agreement that was executed by BNCC and APS in 2013. This agreement addresses the development of Navajo Mine southward from the existing operation into the remainder of Area IV North and Area IV South (collectively referred to as the Pinabete Permit Area) to supply coal to FCPP from 2016 through 2041. These areas are within the current Navajo Mine lease. The land surface area of these mine additions totals approximately 10,100 acres, which would bring the total area of mining at Navajo Mine to 24,550 acres. All permits and authorizations for this mining action were issued in June 2015 with the publication of a ROD for the FCPP/NMEP EIS. These activities are expected to commence in 2016.</p>
San Juan Coal Company San Juan Mine	Ongoing	An underground mine that is the exclusive supplier of coal to the SJGS. Surface mining at San Juan reached a depth in the early 2000s that represented an economic limit, but underground mining is feasible and the coal supply contract with SJGS extends through 2017. Approximately 5400 acres disturbed as of 2010.
San Juan Coal Company La Plata Mine	Past, present	From 1986 through 2002, the La Plata mine also supplied coal to the SJGS. The mine ceased operation in 2002 and reclamation continued through 2005. Approximately 2000 acres disturbed as of 2010.
Black Mesa Mine Peabody Western Coal Company	Past, present, ongoing	Black Mesa Mine supplies coal to Navajo Generating Station in Page, AZ, which has been shut down since 2008. An EIS for future mine operations at Black Mesa was completed in 2008. Peabody submitted a mine plan renewal application and EA to OSMRE in 2010.

Project	Status	Description
<b>Other Development</b>		
NIIP/NAPI Agricultural Development	Ongoing	Total irrigated agricultural land 110,000 acres. Project was about 60% complete in 2006.
Urban Development	Ongoing	Population of San Juan County, NM 1990 – 92,000 2010 – 124,000 2030 – 156,000 (projected)
Animas-La Plata Project (ALP)	Under construction	On December 21, 2000, Public Law 106-554, the Colorado Ute Settlement Act Amendments of 2000 was enacted. Public Law 106-554 provides for the construction of a scaled down project: Ridges Basin Dam and Reservoir, Durango Pumping Plant, Ridges Basin Inlet conduit, with an average annual depletion of 57,100 acre-feet. The law also provides for the construction of a pipeline to deliver water for domestic use on the Navajo Nation at Shiprock, New Mexico.
Navajo Gallup Water Supply Project	Under construction	The project would divert water from the San Juan River downstream of Fruitland, New Mexico, treat the water, and then deliver it along Highway N36 and south to Navajo chapters along U.S. Highway 491. Water delivery would continue to Window Rock, Arizona, and to the city of Gallup, New Mexico.
Indian Gaming on Navajo Reservation	Since 2009 and ongoing	First Indian gaming operation on Navajo Reservation (Fire Rock Casino) opened near Gallup, NM in 2009. A second casino near Shiprock, NM opened in October 2010. Two more casinos are planned near Farmington, NM and Flagstaff, AZ.