



ENERGY ASSURANCE DAILY

Tuesday Evening, December 18, 2012

Electricity

Storm-Damaged Transmission Line Cuts Power to 35,000 PG&E Customers in Sierra Foothills, California December 17

Pacific Gas & Electric Co. (PG&E) reported the cause of an outage Monday afternoon that initially affected 35,000 of its customers in the Sierra Nevada foothills southeast of Sacramento is believed to have originated in the utility's transmission equipment. Local media reported the outage began just after 12:00 p.m. local time on Monday when a transmission line serving the area was damaged during a storm. Operators were still investigating the cause, which had been identified as a transmission-level outage. Throughout Monday afternoon and evening, PG&E crews worked on the ground and in the air with a helicopter crew trying to locate and diagnose the problem. The utility fully restored power by about 12:30 a.m. Tuesday.

<http://www.ktvu.com/news/news/thousands-sierra-foothills-without-power/nTYzR/>

http://www.calaverasenterprise.com/news/article_168d056c-48b4-11e2-a049-0019bb2963f4.html

Update: NRC Could Make Restart Determination in March on SCE's 1,070 MW San Onofre Nuclear Unit 2 in California

The U.S. Nuclear Regulatory Commission (NRC) has presented a tentative timeline that indicates the commission could make a restart determination for Southern California Edison's (SCE) damaged San Onofre Unit 2 as early as March. Both units at the plant have been shut since January, when operators discovered premature tube wear in the steam generators. The NRC must approve plans to restart each unit. SCE has proposed running Unit 2 at 70 percent of capacity for five months, then shutting it to inspect for additional wear on the steam generator tubes. SCE has not yet presented a restart plan for Unit 3, which has more damage than Unit 2, and the utility has stated that it will be "some time" before Unit 3 is ready for restart. The NRC and SCE are meeting today to discuss the commission's ongoing technical review of SCE's restart plans for Unit 2, and another meeting is planned for mid-February. If inspection activity is complete at that time, the commission will issue a public report on its findings in late February or early March, and follow up with a restart determination 5–30 days later. These dates are tentative and subject to change based on inspection results and possible new information.

<http://www.reuters.com/article/2012/12/17/utilities-nuclear-sanonofre>

<http://www.nrc.gov/info-finder/reactor/songs/tube-degradation.html#step>

Update: PG&E's 1,087 MW Diablo Canyon Nuclear Unit 1 in California Reduced to 54 Percent by December 18

On the morning of December 17 the unit was operating at 88 percent.

<http://www.nrc.gov/reading-rm/doc-collections/event-status/reactor-status/2012/>

Entergy's 813 MW FitzPatrick Nuclear Unit in New York Reduced to 75 Percent by December 18

On the morning of December 17 the unit was operating at full power.

<http://www.nrc.gov/reading-rm/doc-collections/event-status/reactor-status/2012/>

Update: Entergy's 1,207 MW Grand Gulf Nuclear Unit 1 in Mississippi Ramped Up to 85 Percent by December 18

Entergy's Grand Gulf Unit 1 restarted December 15 after an outage that began by December 9. Operators have not publicly announced the cause of the shutdown.

<http://www.nrc.gov/reading-rm/doc-collections/event-status/reactor-status/2012/>

Update: TransCanada to Build 900 MW Natural Gas-Fired Power Plant at OPA's Lennox Generating Station in Ontario

The Ontario Power Authority (OPA) on Monday reported that it has, along with partner TransCanada Energy Ltd. (TCE), finalized a Clean Energy Supply Contract for a new 900 MW natural gas-fired power plant the companies are planning to build on the site of Ontario Power Generation's Lennox Generating Station near Napanee, Ontario. The location of the new unit will take advantage of existing transmission and natural gas infrastructure. OPA and TCE had in October 2009 executed an original contract for a combined cycle, natural gas-fired power plant to be built and operated by TCE in Oakville, Ontario. In October 2010, OPA told TCE it would not proceed with the original contract, saying changes in demand and supply made it clear the facility was no longer needed, and directed TCE to cease all further work. On December 13, 2012, the Minister of Energy issued a directive to OPA to enter into this latest agreement as a replacement for the original contract. The two companies now plan, however, for TCE to develop and operate the new 900 MW natural gas-fired power plant near Napanee and provide power to OPA under a 20-year power purchase agreement.

<http://www.powerauthority.on.ca/news/contract-finalized-relocate-transcanada-power-plant-napanee>

<http://www.powerauthority.on.ca/sites/default/files/OPA-TCE-CES-agreement.pdf>

<http://www.680news.com/news/local/article/432554--transcanada-signs-deal-to-build-operate-900-megawatt-ontario-power-plant>

Lavalin Awarded Engineering Contract for Hess's 655 MW Natural Gas-Fired, Combined Cycle Newark Energy Center Under Development in New Jersey

SNC-Lavalin, in joint venture with Skanska, today announced it will provide engineering, procurement, start-up, and commissioning services for the Newark Energy Center, a 655 MW natural gas-fired, combined cycle power plant under development in New Jersey. The Newark Energy Center is being developed by a joint venture of Hess Newark Plant Holdings, LLC, a subsidiary of Hess Corporation and EIF-NEC, LLC, a subsidiary of private equity funds managed by Energy Investors Funds. All the electricity generated by the facility, which is scheduled for operation in 2015, will be delivered to a nearby Public Service Electric & Gas Company substation, providing electricity to Northern New Jersey and the regional power grid.

http://www.snclavalin.com/news.php?lang=en&id=1969&action=latest_news_details

<http://www.newarkenergycenter.com/go/doc/4715/1271199/Overview-Page>

Update: NRG's 25 MW Avra Valley Solar Photovoltaic Facility Starts Commercial Operation in Arizona

NRG Solar, a wholly owned subsidiary of NRG Energy, Inc., on December 13 announced the start of commercial operations for the Avra Valley Solar Generating Station, a 25 MW (AC) photovoltaic facility near Tucson, Arizona. The station's electricity will be sold to Tucson Electric Power under a 20-year power purchase agreement.

http://phx.corporate-ir.net/phoenix.zhtml?c=121544&p=irol-newsArticle_Print&ID=1767155

PPL Electric Utilities Rebuilds 69-kV Sunbury-Dalmatia Transmission Line in Pennsylvania

PPL Electric Utilities on December 12 announced it recently finished rebuilding a nearly 14-mile, 69-kV transmission line between the Sunbury and Dalmatia areas in Snyder and Northumberland counties, Pennsylvania. The rebuilt line is intended to support growing power demand in the region north of Harrisburg. The southern end of the rebuilt line will intersect with the planned 11-mile, 69-kV Richfield-Dalmatia line when it is built. The route for that line was selected in early 2010, and PPL is currently in the process of acquiring the remaining property easements to be able to build and maintain the line. The Richfield-Dalmatia project also will include construction of a new substation along the new power line south of Meiserville.

<http://pplweb.mediaroom.com/index.php?s=12270&item=136220>

Update: Midwest ISO Board Approves Addition of Six Entergy Operating Companies and South Mississippi Electrical Power Association

The Midwest Independent Transmission System Operator (MISO) on December 13 approved seven new transmission-owning members, including six Entergy utility operating companies along with the South Mississippi Electric Power Association (SME). Full integration of Entergy and SME is planned for December 2013. MISO also announced it will move forward with the MISO Transmission Expansion Plan, or MTEP12, which is comprised of 242 stakeholder-driven projects that will maintain system reliability, improve market efficiency, and allow the reliable integration of new generation resources.

<https://www.midwestiso.org/MediaCenter/PressReleases/Pages/MISOBoardApprovesSevenNewsTOs.aspx>

<http://www.reuters.com/article/2012/12/14/utilities-entergy-miso-idUSL1E8NE08E20121214?type=companyNews&feedType=RSS&feedName=companyNews&rpc=43>

NRG and GenOn Merge to Create Largest U.S. Competitive Power Generator

NRG Energy, Inc. and GenOn Energy, Inc. have completed their merger effective December 14, creating the largest competitive power generator in the United States. NRG now has a diverse fleet of almost 100 generation assets with a total capacity of approximately 47,000 MW concentrated in three domestic regions: East, Gulf Coast, and West. http://phx.corporate-ir.net/phoenix.zhtml?c=121544&p=irol-newsArticle_Print&ID=1767507

Petroleum

Update: Buckeye Stops Leak on Its 140,000 b/d Petroleum Products Pipeline in New Jersey by December 17; Pipeline Remains Shut for Repairs – State Regulators

The New Jersey Department of Environmental Protection (DEP) on Monday said the leak on Buckeye Pipe Line Co.'s 140,000 b/d petroleum products pipeline in Hillsborough, New Jersey has been sealed and stopped. Buckeye shut the pipeline, which runs from Linden, New Jersey to Macungie, Pennsylvania, on December 10 after detecting a gasoline spill. Some 600 gallons of gasoline and 8,400 gallons of a gasoline and water mix were recovered from the spill site in Hillsborough, the DEP said. Operators had drilled four wells to limit the spread of gasoline into groundwater and were working to replace the leaking pipeline. The U.S. Pipeline and Hazardous Materials Safety Administration said it was investigating the cause of the leak and has not issued any orders requiring Buckeye to submit a restart plan.

Reuters, 17:22 December 17, 2012

Update: Enterprise, Enbridge to Expand Seaway Crude Oil Pipeline to 850,000 b/d in 2014

Enterprise Products Partners LP and partner Enbridge Inc. plan to expand the Seaway crude oil pipeline to transport 850,000 b/d of crude between Cushing, Oklahoma and the Texas Gulf Coast during the first quarter of 2014, an Enterprise spokesman said on Monday. The pipeline currently transports 150,000 b/d, but the partners are on track to finish an expansion to 400,000 b/d in the first quarter of 2013. A new 450,000 b/d twin line will be built parallel to the existing Seaway pipeline for completion in early 2014, the spokesman said.

Reuters, 12:31 December 17, 2012

Barge Leaks No. 6 Fuel Oil near Mariner's Harbor in New York December 14

The U.S. Coast Guard reported it was responding to a fuel oil spill that occurred around 11:30 p.m. EST December 14 at Mays Ship Repair near Mariner's Harbor, Staten Island, where the oil was being transferred from Barge Boston No. 30 to Barge DBL 25. The responsible company, Boston Marine Transport, told officials that workers spotted the leak during the transfer process and then deployed boom around the two barges. Upon investigation, officials confirmed the source of the fuel spill was isolated to the #2 port tank of Boston No. 30, which was carrying a max capacity of 112,000 gallons of #6 fuel oil. Personnel were conducting soundings in the barge tanks to determine the actual amount of fuel spilled into the water. Boom had been deployed around the barge, at Shooter's Island and Mays Shipyard, and along Kill Van Kull Waterway.

<http://www.uscgnews.com/go/doc/4007/1660979/>

<http://www.uscgnews.com/go/doc/4007/1661055/>

http://www.nj.com/hudson/index.ssf/2012/12/coast_guard_identifies_source.html

Chemical Leak, Small Fire Again Shut 325,000 b/d CDU at Motiva's 600,000 b/d Port Arthur, Texas Refinery December 17 – Sources

Motiva Enterprises LLC again will have to shut down the new 325,000 b/d crude distillation unit (CDU) at its Port Arthur refinery after workers found evidence of chemicals leaking into the unit, according to sources familiar with refinery operations. Motiva was first forced to shut the unit shortly after it was commissioned due to a June 9 fire, after which extensive corrosion was discovered in the CDU's vessels and piping due to a caustic leak. Operators began attempts to restart the unit this month after six months of repairs. On Monday, operators halted restart procedures for a second time in two weeks after a small fire earlier that day, sources said. Initial reports indicated the unit was not being shut down, as it had been last week after another small fire broke out, but that restart procedures had been paused. Sources this morning said, however, that the unit would likely be shut down again.

DJN, 11:07 December 18, 2012

Update: BP Says Whiting, Indiana Refinery Upgrade On Track for Completion in Second Half of 2013; Industry Groups Report Delays in Upgrades to Individual Units

BP Plc on Friday said the major expansion project at its 413,000 b/d Whiting refinery is 80 percent complete and on track for completion in the second half of 2013, according to a spokesman. The company is upgrading the refinery to run heavier oil and increase gasoline diesel production by about 40,000 b/d. Although the overall project remains on track, industry intelligence groups reported last week that BP has pushed back the start-up date of its revamped 260,000 b/d sour crude distillation unit (CDU) until mid-April or May, instead of March. Reports from IIR Energy and Energy News Today said the postponed restart of the CDU, which was shut in early November, could also push back the commissioning of a new coker unit until late August. Until the new coker unit is commissioned, the revamped CDU will likely run sweet crude. BP declined to comment on the timeline for individual units.

Reuters, 13:54 December 14, 2012

http://www.downstreamtoday.com/news/article.aspx?a_id=37994

Update: Marathon Restarts Hydrotreater Unit after Leak Repairs at Its 490,000 b/d Garyville, Louisiana Refinery December 17

Marathon Petroleum Corp. on Monday was in the process of returning a hydrotreater unit at its Garyville refinery to operations after shutting it over the weekend to isolate a leak, according to a spokesman. Operators repaired the unit, which had leaked gas oil containing hydrogen sulfide.

Reuters, 10:58 December 17, 2012

Unplanned FCCU Outage Reduces Crude Throughput at Western's 122,000 b/d El Paso, Texas Refinery December 14; Refinery Should Resume Full Rates This Weekend

Western Refining Inc. said crude throughput at its El Paso refinery had been reduced Friday due to an unplanned outage on the fluid catalytic cracking unit (FCCU) on the south side of the facility, according to a spokesman. Operators expected to resume full production by this weekend.

Reuters, 21:50 December 17, 2012

Update: Hydrocracker at Planned Rates at Valero's 93,000 b/d Three Rivers, Texas Refinery by December 17

Valero Energy Corp. on Monday said a hydrocracker at its Three Rivers refinery was at planned rates following a snag last week. Operators had shut the unit last Wednesday after an unspecified snag led to flaring.

Reuters, 11:49 December 17, 2012

Update: NuStar Energy to Sell Its 14,021 b/d San Antonio, Texas Refinery and Related Assets to Calumet Specialty Products Partners

NuStar Energy L.P. on Monday announced that it has entered into a purchase agreement to sell its San Antonio refinery and related assets, including a terminal in Elmendorf, Texas and a pipeline connecting the terminal and refinery, to Calumet Specialty Products Partners, L.P. NuStar announced its plans to sell the refinery last month as part of its strategic redirection away from the margin-based refining and marketing business in order to further grow its fee-based pipeline and storage operations, especially in the Eagle Ford Shale region and other U.S. shale plays. The transaction is expected to close on January 2, 2013.

<http://www.nustarenergy.com/newsroom/item=189>

<http://www.calumetspecialty.com/InvestorRelations/NewsEvents.aspx>

Update: U.S. Virgin Islands, HOVENSA Extend Interim Fuel Agreement as Talks over Fate of Shuttered St. Croix Refinery Continue

HOVENSA reported it has extended an interim agreement with the government of the U.S. Virgin Islands to continue making fuel available to the local community until not later than February 28, 2013. The agreement also allows HOVENSA to operate an oil storage facility on the site of its shuttered St. Croix refinery, according to the terms of an earlier interim agreement signed in March. HOVENSA in February closed the St. Croix refinery, citing poor margins, and said it would convert the facility into an oil storage terminal. The company's operation of the complex as a terminal is subject to the completion of negotiations with the local government, which advocates restarting operations at the refinery.

<http://www.caribjournal.com/2012/12/17/us-virgin-islands-hovensa-extend-interim-agreement-as-talks-continue/>

Cavalier Energy to Develop 10,000 b/d Hoole Grand Rapids Oil Sands Project in Alberta
Paramount Resources Ltd. on Monday announced that its wholly-owned subsidiary, Cavalier Energy Inc., in November filed a regulatory application for the Hoole Grand Rapids Project with the Energy Resources Conservation Board and Alberta Environment and Sustainable Resource Development. The Hoole Project comprises a 10,000 b/d in-situ, steam assisted gravity drainage oil sands development. Subject to receipt of regulatory approval, the current Hoole Project schedule anticipates first steam in 2015 and the first full year of production in 2016.

http://www.cavalierenergy.com/upload/media_element/8/01/cavalier-energy-press-release-17.12.12-final.pdf

Two Slawson Exploration Oil Wells Blow Out in North Dakota December 13

Officials reported two oil wells operated by Slawson Exploration blew out in North Dakota late last week. One oil well near Lake Sakakawea continued to spill oil December 14 and it was not clear when the well would be brought back under control. Officials also received reports of a spill from an oil well east of Watford City. That well was shut in within a few hours and was expected to resume operations soon.

http://bismarcktribune.com/bakken/oil-well-blowout-reported-near-lake-sakakawea/article_faee38bc-4548-11e2-869c-0019bb2963f4.html

Samson Resources Company Says Explosion, Fire at Oil Well in Converse County, Wyoming Killed Three Contract Personnel December 14 – Local Media

<http://www.k2tv.com/news.php?id=767>

Natural Gas

Update: Pennant Midstream to Construct 400 MMcf/d Hickory Bend Natural Gas Pipeline System and Gas Processing Plant in East Ohio

Pennant Midstream LLC, a joint venture between NiSource Inc. and affiliates of Hilcorp Energy Company, is moving forward with plans to construct the Hickory Bend Pipeline System and an associated cryogenic gas processing plant, according to a NiSource spokeswoman. The pipeline will consist of 50 miles of 20- to 24-inch wet-gas gathering lines installed through Northeast Ohio and western Pennsylvania, she said. The pipeline system will have an initial capacity of 400 MMcf/d, with an expansion capability of up to 600 MMcf/d. The 200 MMcf/d cryogenic gas processing plant will be located in Mahoning County, Ohio. Some portions of the gathering system should start in the first quarter of 2013, and the processing plant is expected to be operating by the end of 2013.

http://www.downstreamtoday.com/news/article.aspx?a_id=38005

Regency Reports Numerous AGI Compressor Shutdowns at Its 290 MMcf/d Waha Gas Plant in Texas December 13–17

Regency Energy Partners reported numerous acid gas injector (AGI) compressor shutdowns at its Waha plant from December 13–17 in filings with the Texas Commission on Environmental Quality. An outage on December 13 was caused by a failed gasket on the AGI glycol contactor. On December 15, a blowdown valve malfunction shut the compressor in the evening, and later that night, the unit shut down on an amine system pressure fluctuation. On December 16, the AGI compressor shutdown on a failed filter case gasket in the morning, and again on an amine system pressure fluctuation in the afternoon.

<http://www11.tceq.state.tx.us/oc/eer/index.cfm?fuseaction=main.getDetails&target=177151>

<http://www11.tceq.state.tx.us/oc/eer/index.cfm?fuseaction=main.getDetails&target=177190>

<http://www11.tceq.state.tx.us/oc/eer/index.cfm?fuseaction=main.getDetails&target=177189>

<http://www11.tceq.state.tx.us/oc/eer/index.cfm?fuseaction=main.getDetails&target=177191>

<http://www11.tceq.state.tx.us/oc/eer/index.cfm?fuseaction=main.getDetails&target=177209>

Southern Union Reports Flaring at Its 140 MMcf/d Keystone Gas Plant in Texas December 13 and December 16

Southern Union Gas Services reported it was flaring low-pressure gas at its Keystone plant last Thursday after field compressors upstream went down, causing the low-pressure system to overload, according to a filing with the Texas Commission on Environmental Quality. The plant reported emissions again on December 16, when field units went down several times due to liquid slugs in inlet lines.

<http://www11.tceq.state.tx.us/oc/eer/index.cfm?fuseaction=main.getDetails&target=177193>

<http://www11.tceq.state.tx.us/oc/eer/index.cfm?fuseaction=main.getDetails&target=177157>

Enbridge Reports AGI Unit Shutdowns at Its Tilden Gas Plant in Texas December 15–16

Enbridge reported the acid gas injector (AGI) unit No. 2 went down at its Tilden plant Saturday night due to a pre-lube pump motor fault, according to a filing with the Texas Commission on Environmental Quality. AGI Units 1 and 2 both went down very late Sunday due to a compressor motor fault.

<http://www11.tceq.state.tx.us/oce/ee/index.cfm?fuseaction=main.getDetails&target=177188>

<http://www11.tceq.state.tx.us/oce/ee/index.cfm?fuseaction=main.getDetails&target=177244>

Other News

Nothing to report.

International News

Iraq's 450,000 b/d Kirkuk-Ceyhan Pipeline Resumes Normal Rates December 16 after Technical Problems Halt Flows December 8–11 and December 15

Iraq's Kirkuk-Ceyhan pipeline on Sunday resumed operations at a rate of around 400,000–450,000 b/d after an unspecified technical problem had halted flows the night before, according to two sources at the state North Oil Company. Oil flow was halted on December 8 and resumed on December 11 for the same reason without any impact on exports, the sources said.

<http://gulfbusiness.com/2012/12/oil-flow-at-iraqs-kirkuk-ceyhan-pipeline-resumes/>

Iraqi Kurdish Oil Exports Fall Below 30,000 b/d as Attacks Increase in Disputed Northern Areas – Sources

Oil exports from Iraq's autonomous Kurdistan region have fallen to an average of below 30,000 b/d, industry sources said on Monday, amid increasing tensions between the central government in Baghdad and the Kurdistan Regional Government (KRG) over contested land and oil rights. The KRG has in the past reduced exports because Baghdad withheld payments to oil companies operating in the north. At their highest, Iraqi Kurdish oil exports reached around 200,000 b/d. Last week, Kurdish exports were cut by around 75,000 b/d due to a technical problem at the Khurmala oilfield, Iraqi oil sources said. The news of reduced exports coincided with reports on Monday of increasing attacks mostly in northern Iraq. No armed group claimed responsibility for the attacks. Last month, Baghdad and Kurdistan sent troops and tanks from their respective armies to reinforce positions around towns in the contested territories, escalating tensions.

Reuters, 05:45 December 17, 2012

<http://www.reuters.com/article/2012/12/17/iraq-violence->

[idUSL5E8NH1L920121217?feedType=RSS&feedName=rbssEnergyNews&rpc=43](http://www.reuters.com/article/2012/12/17/iraq-violence-idUSL5E8NH1L920121217?feedType=RSS&feedName=rbssEnergyNews&rpc=43)

Saboteurs Blow Up 38-Inch Natural Gas Pipeline Feeding the Balhaf LNG Export Terminal in Yemen December 16

Yemen LNG on Sunday confirmed that saboteurs had very early that morning bombed a 38-inch natural gas pipeline linking Yemen's Block 18 in Maarib to a gas liquefaction plant at the Balhaf LNG export terminal on the Gulf of Aden. Early reports had indicated the pipeline had exploded in southeastern Shabwa province due to high pressure. The pipeline and other energy infrastructure have been attacked several times in recent months. Block 18, located in central Yemen, houses two LNG production trains with a combined capacity of 6.7 million tonnes per annum.

http://www.downstreamtoday.com/news/article.aspx?a_id=37995

<http://yemenpost.net/Detail123456789.aspx?ID=3&SubID=6343>

Calvalley Petroleum Inc. Reports Attack on Small Oil Well at Al Roidhat Oil Field in Yemen December 13

Calvalley Petroleum Inc. on December 14 reported it was cooperating with state and local officials to investigate an attack that had occurred the night before in its Al Roidhat oil field in Yemen. One of its heavy oil wells was targeted by an incendiary device resulting in some damage to the well head. The well, which was producing approximately 100 b/d of heavy oil, has been shut-in pending repairs. The damage caused is restricted to the one well in the field, and production from other wells in the area has not been affected. The damaged well will resume production after repairs are completed. Media reports indicated unidentified men had planted three bombs near an Calvalley oil well but two were defused.

<http://gulfnnews.com/news/gulf/yemen/yemen-seizes-second-turkish-made-arms-shipment-1.1118726>

<http://www.calvalleypetroleum.com/files/news/calvalleynews-2012-12-14.pdf>

Energy Prices

U.S. Oil and Gas Prices			
December 18, 2012			
	Today	Week Ago	Year Ago
CRUDE OIL West Texas Intermediate U.S. \$/Barrel	87.73	84.98	93.23
NATURAL GAS Henry Hub \$/Million Btu	3.20	3.35	3.05

Source: Reuters

Links

This Week in Petroleum from the U.S. Energy Information Administration (EIA)

<http://www.eia.gov/oog/info/twip/twip.asp>

Updated every Wednesday.

Weekly Petroleum Status Report from EIA

http://www.eia.gov/oil_gas/petroleum/data_publications/weekly_petroleum_status_report/wpsr.html

Updated after 10:30 AM and 1:00 PM Eastern Time every Wednesday.

Natural Gas Weekly Update from EIA

<http://www.eia.gov/oog/info/ngw/ngupdate.asp>

Updated after 2:00 PM Eastern Time every Thursday.

ENERGY ASSURANCE DAILY

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<http://www.oe.netl.doe.gov/ead.aspx>

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