



# ENERGY ASSURANCE DAILY

Monday Evening, April 01, 2013

## ***Electricity***

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### **Entergy's 858 MW Arkansas Nuclear Unit 2 in Arkansas Shuts after Breaker Explosion March 31**

Entergy Nuclear reported that at approximately 7:45 a.m. CDT Sunday, the Unit 1 Main Turbine Generator Stator (~500 tons) at Arkansas Nuclear One fell when the turbine temporary lift device failed as operators were moving it out of the turbine building, killing one worker and injuring eight others. This caused a loss of all offsite power on Unit 1, which is currently in a refueling outage, and tripped Unit 2, which had been operating at full power. Unit 1 emergency diesel generators No. 1 and No. 2 started, but the event caused a loss of decay heat removal for a period of 3 minutes and 50 seconds. Operators declared an Unusual Event due to damage to a breaker cubicle related to the accident, according to a filing with the U.S. Nuclear Regulatory Commission, which said operators were still working to determine the cause of the lift device failure and the full extent of structural damage on Unit 1. Both units were in stable shutdown condition, and operators terminated the Unusual Event notification Sunday evening after operators stabilized power supplies. Power to Unit 1 was being supplied by emergency diesel generators, and power to Unit 2 was being provided by emergency diesel generators and offsite power.

[http://www.entropy-nuclear.com/News\\_Room/newsrelease.aspx?NR\\_ID=2692](http://www.entropy-nuclear.com/News_Room/newsrelease.aspx?NR_ID=2692)

[http://www.entropy-nuclear.com/News\\_Room/newsrelease.aspx?NR\\_ID=2693](http://www.entropy-nuclear.com/News_Room/newsrelease.aspx?NR_ID=2693)

<http://www.nrc.gov/reading-rm/doc-collections/event-status/reactor-status/2013/>

<http://www.nrc.gov/reading-rm/doc-collections/event-status/event/2013/20130401en.html>

### **Update: TVA's 1,155 MW Browns Ferry Nuclear Unit 1 in Alabama at Full Power by March 31**

Browns Ferry 1 returned from an outage that began March 19, when operators manually scrammed the reactor due to lowering main condenser vacuum, which was caused by a significant leak on the 1C feedwater heater level control line. Operators restarted the reactor by March 28.

<http://www.nrc.gov/reading-rm/doc-collections/event-status/reactor-status/2013/>

### **Indiana-Michigan Power Reports Weld Leak on Its 1,000 MW D.C. Cook Nuclear Unit 1 Reactor Coolant System in Michigan**

Indiana-Michigan Power on Sunday reported that during a scheduled refueling outage on its D.C. Cook Unit 1, dye penetrant testing identified a 10mm long relevant linear indication on a 3/4 inch Reactor Coolant System (RCS) flow instrument line weld, between the RCS loop piping and the instrument isolation valve, according to a filing with the U.S. Nuclear Regulatory Commission. Though this constitutes a weld defect in the primary coolant system and is considered a through-wall leak, there has been no evidence of active leakage currently or during the previous operating cycle. Operators plan to correct the condition during the current refueling outage. Unit 2 is operating at 100 percent power and is unaffected by this condition.

<http://www.nrc.gov/reading-rm/doc-collections/event-status/event/2013/20130401en.html>

### **Luminant's 1,150 MW Comanche Peak Nuclear Unit 1 in Texas Shut by March 31**

On the morning of March 30 the unit was operating at full power.

<http://www.nrc.gov/reading-rm/doc-collections/event-status/reactor-status/2013/>

### **APS's 1,243 MW Palo Verde Nuclear Unit 1 in Arizona Shut by March 30**

On the morning of March 29 the unit was operating at full power.

<http://www.nrc.gov/reading-rm/doc-collections/event-status/reactor-status/2013/>

## **CPV's 728 MW Sentinel Natural Gas-Fired Unit in California Returns to Service in California by April 1**

The unit returned from an outage that began by January 17 and was due to both planned and unplanned causes.

<http://content.aiso.com/unitstatus/data/unitstatus201301171515.html>

<http://content.aiso.com/unitstatus/data/unitstatus201303311515.html>

## **Dynegy's 510 MW Moss Landing Natural Gas-Fired Unit 2 in California Shut by March 31**

The unit entered an unplanned outage.

<http://content.aiso.com/unitstatus/data/unitstatus201303311515.html>

## ***Petroleum***

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### **ExxonMobil Shuts 96,000 b/d Pegasus Crude Oil Pipeline after Rupture Spills Approximately 12,000 Barrels of Oil and Water in Arkansas March 29**

ExxonMobil Corp. shut its 96,000 b/d Pegasus crude oil pipeline late on Friday after an apparent breach caused at least 12,000 barrels of oil and water to leak near Mayflower, Arkansas, prompting the evacuation of 22 homes. The 20-inch pipeline originates in Patoka, Illinois and was carrying low-quality Wabasca Heavy crude oil from Alberta to the line's terminating point at Nederland, Texas at the time of the leak. ExxonMobil said that people in the area began reporting the leak at the same time its pipeline monitors in Houston noticed a drop in pressure in the line on Friday. Responders were on the scene within half an hour, and by 3:00 a.m. Saturday there was no additional oil spilling from the pipeline. The company said Monday that it was awaiting regulatory approval to begin excavation work and repairs, and that it could not speculate when the line would restart. The cause of the spill is under investigation.

[http://exxonmobil.com/Corporate/news\\_ak.aspx](http://exxonmobil.com/Corporate/news_ak.aspx)

[http://exxonmobil.com/Corporate/news\\_ar-2.aspx](http://exxonmobil.com/Corporate/news_ar-2.aspx)

[http://exxonmobil.com/Corporate/news\\_ar-3.aspx](http://exxonmobil.com/Corporate/news_ar-3.aspx)

<http://finance.yahoo.com/news/exxon-shuts-oil-pipeline-major-010122717.html>

<http://www.bloomberg.com/news/2013-04-01/wti-oil-falls-first-time-in-six-days-as-exxon-shuts-line.html?cmpid=yahoo>

### **Shell Says 'No Evidence' of Leak after Shutting a 16-Inch West Columbia, Texas Crude Oil Pipeline Due to Possible Breach March 29**

Shell Pipeline Co. on Monday said it has found "no evidence" of a crude oil leak from its 16-inch West Columbia, Texas pipeline, which operators shut on Friday after alarms indicated a possible breach. Operators reported that electronic calculations showed a loss of 700 barrels of crude oil from the pipeline on Friday, but that it was unknown whether any oil had been released, according to a filing with the U.S. National Response Center. The 15-mile pipeline, which transports crude from Genoa to the East Houston Tank Farm operated by Magellan Midstream Partners, remained shut for integrity testing on Monday. Shell said it was unable to speculate on when it would restart.

[http://www.nrc.uscg.mil/reports/rwservlet?standard\\_web+inc\\_seq=1042526](http://www.nrc.uscg.mil/reports/rwservlet?standard_web+inc_seq=1042526)

<http://www.reuters.com/article/2013/04/01/shell-pipeline-idUSL2N0CO0D20130401>

### **Citgo Shuts FCCU Due to Lube Oil Line Leak at Its 163,000 b/d Corpus Christi, Texas Refinery April 1**

Citgo Corp. reported it shut the No. 2 fluid catalytic cracking unit (FCCU) at the East Plant of its Corpus Christi refinery Monday morning after the lubrication oil line for the unit's power train developed a leak, according to a filing with the Texas Commission on Environmental Quality. The emergency shutdown caused emissions from the FCCU for a period of nearly 3 hours.

<http://www11.tceq.state.tx.us/oc/eer/index.cfm?fuseaction=main.getDetails&target=181062>

### **Flint Hills Reports Exchanger Leak on DIH Unit at Its 288,468 b/d Corpus Christi, Texas Refinery March 29**

Flint Hills Resources LP reported an exchanger leak on the East Refinery deisohexanizer (DIH) unit at its Corpus Christi refinery Friday, according to a filing with the Texas Commission on Environmental Quality. Operators depressurized the exchanger to stop the leak, which appeared to be the result of thermal expansion. The filing lists Crude Unit 2 and the DHI unit as sources of emissions.

<http://www11.tceq.state.tx.us/oc/eer/index.cfm?fuseaction=main.getDetails&target=181017>

### **Update: Dominion Reaches Milestones in Its Dominion Cove Point LNG Liquefaction Project in Maryland**

Dominion Resources announced today it has reached three major milestones in its Dominion Cove Point LNG liquefaction project in Maryland, where it plans to build facilities to export 5.25 million tonnes per annum of liquefied natural gas (LNG). These milestones include:

- Fully subscribing the marketed capacity of the project with signed 20-year terminal service agreements;
- Awarding its engineering, procurement, and construction contract for new liquefaction facilities, following completion of the front-end engineering and design work; and
- Planning to today submit an application to the U.S. Federal Energy Regulatory Commission for the project.

Subject to receipt of regulatory approvals, Dominion plans to start construction on the facility in 2014 and put the liquefaction facilities in service in 2017. The customers also have signed precedent agreements for service on the 88-mile Cove Point pipeline, which connects the facility to a nexus of interstate natural gas pipelines in northern Virginia. The customers will procure their own natural gas and deliver it to the Cove Point pipeline. Dominion will liquefy the gas, store it, and load it into ships brought to the facility on the Chesapeake Bay. Dominion will provide a tolling service, and it will not take possession of either the natural gas or the LNG.

<http://dom.mediaroom.com/2013-04-01-Dominion-Cove-Point-Liquefaction-Project-Moving-Forward-Cements-Front-Runner-Status>

### **Atlas Pipeline Reports Compressor Shutdown at Its 165 MMcf/d Midkiff Gas Plant in Texas March 31**

Atlas Pipeline reported Compressor B16 at its Midkiff plant shut down on no lube flow Sunday evening due to a blown seal on a divider block, according to a filing with the Texas Commission on Environmental Quality.

<http://www11.tceq.state.tx.us/oce/eer/index.cfm?fuseaction=main.getDetails&target=181045>

### **Amine Pump Shutdown Leads to Flaring at Upton's 112 MMcf/d Benedum Gas Plant in Texas March 29**

Upton Gas GP, Inc. reported the main amine pump at its Benedum plant shut down due to a hole in a flange on the suction of the pump, according to a filing with the Texas Commission on Environmental Quality. The site's secondary amine pump is also currently down for maintenance and could not be brought back online at the time, forcing operators to flare residue gas until maintenance could repair the pump.

<http://www11.tceq.state.tx.us/oce/eer/index.cfm?fuseaction=main.getDetails&target=181016>

### **Power Outage Causes Emissions at Enbridge's 65 MMcf/d Henderson Gas Plant in Texas March 31**

Enbridge reported brief emissions at its Henderson gas plant on Sunday after the plant lost power due to a utility power provider outage related to the weather, according to a filing with the Texas Commission on Environmental Quality. Operators shut-in inlet gas and set the plant to by-pass.

<http://www11.tceq.state.tx.us/oce/eer/index.cfm?fuseaction=main.getDetails&target=181048>

### **WTP Gas Shuts SRU at Its 50 MMcf/d East Vealmoor Gas Plant in Texas for Repairs March 31**

WTP Gas reported it was shutting a sulfur recover unit (SRU) at its East Vealmoor plant Sunday for repairs, according to a filing with the Texas Commission on Environmental Quality. Emissions related to the repairs were expected to continue until April 4.

<http://www11.tceq.state.tx.us/oce/eer/index.cfm?fuseaction=main.getDetails&target=180862>

### **Enbridge Reports AGI Unit Shutdowns at Its Tilden Gas Plant in Texas March 29 and March 31**

Enbridge reported repeated acid gas injector (AGI) unit shutdowns at its Tilden gas plant over the weekend, according to filings with the Texas Commission on Environmental Quality. On Friday night, AGI Units 1 and 2 shut down on high discharge pressure after the generator of the chiller shut down on low oil pressure. On Sunday afternoon, AGI Units 1 and 2 shut down on high discharge pressure due to a turbo sensor malfunction, and that night, the units shut down on low suction pressure due to a pump malfunction

<http://www11.tceq.state.tx.us/oce/eer/index.cfm?fuseaction=main.getDetails&target=181019>

<http://www11.tceq.state.tx.us/oce/eer/index.cfm?fuseaction=main.getDetails&target=181042>

<http://www11.tceq.state.tx.us/oce/eer/index.cfm?fuseaction=main.getDetails&target=181047>

## Other News

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Nothing to report.

## International News

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Nothing to report.

## Energy Prices

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<b>U.S. Oil and Gas Prices</b>			
April 1, 2013			
	<b>Today</b>	<b>Week Ago</b>	<b>Year Ago</b>
<b>CRUDE OIL</b> <b>West Texas Intermediate U.S.</b> \$/Barrel	96.78	93.79	103.27
<b>NATURAL GAS</b> <b>Henry Hub</b> \$/Million Btu	4.03	4.01	2.02

Source: Reuters

## Links

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***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](http://www.eia.gov/oil_gas/petroleum/data_publications/weekly_petroleum_status_report/wpsr.html)

Updated after 10:30 AM & 1:00 PM ET every Wednesday.

***Natural Gas Weekly Update*** from EIA

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

Updated after 2:00 PM ET every Thursday.

### **ENERGY ASSURANCE DAILY**

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

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