



# ENERGY ASSURANCE DAILY

Monday Evening, April 18, 2011

## Major Developments

### Storms, Tornadoes Leave Dozens Dead, Knock out Power to More Than 750,000 Customers from Central to Eastern United States April 15-18

Storms and tornadoes blasted the central and southeastern United States on April 15-18, killing at least 45 people and knocking out power to an estimated 753,012 customers across multiple states, news and company sources reported. Other states reported power outages, but the following table lists only those states where 10,000 or more customers lost power, based on available data.

U.S. Central to East Coast Customer Power Outages			
April 15 – 18, 2011			
Electric Utility	State	Peak	Latest Reported
Progress Energy	NC	220,000	27,809
North Carolina Electric Cooperatives	NC	100,000	15,000
Duke Energy	NC/SC	38,000	442
Dominion Virginia Power	NC/VA	43,125	2,326
Appalachian Power	VA	12,000	257
NOVEC	VA	1,234	8
Entergy	AR	43,000	491
Electric Cooperatives of Arkansas	AR	6,000	1,200
BGE	MD	40,000	508
Pepco	MD/DC	5,500	26
Alabama Power	AL	30,000	5
Decatur Utilities	AL	6,588	0
Joe Wheeler Electric	AL	3,592	0
Oncor	TX	30,000	1,261
Allegheny Power	PA	28,000	62
PECO	PA	25,000	80
Met-Ed	PA	7,500	270
PPL	PA	9,000	6
Georgia Power	GA	25,600	0
North Georgia EMC	GA	1,100	0
Central Maine Power	ME	22,000	60
Bangor Hydro Electric	ME	13,000	274
Nashville Electric Service	TN	12,206	20
DTE	MI	10,000	0
Consumers Energy	MI	7,700	0
Public Service Company of Oklahoma	OK	6,909	0
Oklahoma Association of Electric Coops	OK	4,200	4,200
Oklahoma Gas & Electric	OK	1,758	122
<b>TOTAL*</b>		<b>753,012</b>	<b>54,427</b>

\*Total outages only represent electric utilities listed in this table.

Sources:

<http://www.cnn.com/2011/US/04/18/severe.weather/index.html?hpt=T2>

Progress Energy: <http://progress-energy.com/shared/outages/car/default.aspx> , <http://progress-energy.com/aboutus/news/article.asp?id=26082>

North Carolina Electric Cooperatives: <http://www.ncelectriccooperatives.com/news/releases/storms/aprilstorm2.htm>

Duke Energy: <http://www.duke-energy.com/north-carolina/outages/current.asp> ,  
<http://www.dailyadvance.com/news/death-toll-rising-worst-storm-decades-445160>  
Dominion Virginia Power: <http://www.dom.com/storm-center/dominion-electric-outage-summary.jsp> ,  
[http://www.wavy.com/dpp/news/local\\_news/power-outage-update-from-dominion-power](http://www.wavy.com/dpp/news/local_news/power-outage-update-from-dominion-power)  
Appalachian Power: <https://www.appalachianpower.com/outages/> ,  
<http://www.roanoke.com/news/breaking/wb/283611>  
NOVEC: <http://www.novec.com/stormcenter/index.cfm>  
Entergy: <http://viewoutage.entergy.com/ar.aspx> ,  
<http://www.dailyjournal.net/view/story/5e1feacba02544df8a01bc911725f786/AR--Severe-Weather-Arkansas-Outages/>  
Electric Cooperatives of Arkansas:  
<http://www.greenfieldreporter.com/view/story/6685ba83c1a74c7dbbc31b365700fa04/AR--Arkansas-Storms-Outages/>  
BGE: <http://www.bge.com/portal/site/bge/menuitem.eb0798e0c710ad25c7b0eb22747176a0/> ,  
[http://articles.baltimoresun.com/2011-04-17/news/bs-md-bge-0418-20110417\\_1\\_outages-bge-website-power](http://articles.baltimoresun.com/2011-04-17/news/bs-md-bge-0418-20110417_1_outages-bge-website-power)  
Pepco: <http://www.pepco.com/home/emergency/maps/stormcenter/> ,  
<http://www.tbd.com/blogs/weather/2011/04/tornado-warning-in-d-c-region-during-powerful-saturday-storm-10312.html>  
Alabama Power: <http://twitter.com/alabamapower> ,  
[http://blog.al.com/spotnews/2011/04/storms\\_leave\\_almost\\_30000\\_in\\_a.html](http://blog.al.com/spotnews/2011/04/storms_leave_almost_30000_in_a.html)  
Decatur Utilities: [http://www.waaytv.com/news/local/story/Minor-Damage-Reported-Around-Valley/\\_XcT2bQAU695JZyRozLzw.csp](http://www.waaytv.com/news/local/story/Minor-Damage-Reported-Around-Valley/_XcT2bQAU695JZyRozLzw.csp)  
Oncor: <https://maps.oncor.com/summary.asp> , <http://www.dallasnews.com/news/local-news/20110415-dart-trains-stall-as-high-winds-cause-power-outages-across-dallas-fort-worth.ece>  
Allegheny Power: [http://app.alleghenyenergy.com/outagestatus/OMS\\_Customer\\_State.aspx?Option=State&User=](http://app.alleghenyenergy.com/outagestatus/OMS_Customer_State.aspx?Option=State&User=) ,  
<http://www.post-gazette.com/pg/11107/1140065-100.stm>  
PECO: <http://www.peco.com/outagemap> , <http://www.philly.com/philly/news/pennsylvania/120046054.html>  
PPL: <https://selfserv.pplelectric.com/EUSelfServ/Outage/OutageMap.aspx> , <http://thetimes-tribune.com/news/thousands-without-power-in-northeast-pa-ppl-reports-1.1133533#axzz1JsWdVny0>  
Met-Ed: [http://www.firstenergycorp.com/outages/outages.do?state\\_code=PA](http://www.firstenergycorp.com/outages/outages.do?state_code=PA) ,  
[http://www.ydr.com/local/ci\\_17868541?source=most\\_email](http://www.ydr.com/local/ci_17868541?source=most_email)  
Georgia Power: <http://twitter.com/georgiapower> , [http://romenews-tribune.com/view/full\\_story/12815930/article-Ga--Power--Service-restored-in-Floyd-County?instance=home\\_news](http://romenews-tribune.com/view/full_story/12815930/article-Ga--Power--Service-restored-in-Floyd-County?instance=home_news)  
North Georgia EMC:  
[http://wdef.com/news/1\\_100\\_north\\_georgia\\_emc\\_customers\\_without\\_power\\_in\\_fort\\_oglethorpe\\_area/04/2011](http://wdef.com/news/1_100_north_georgia_emc_customers_without_power_in_fort_oglethorpe_area/04/2011) ,  
<http://mableton.11alive.com/news/news/deadly-storms-spare-metro-atlanta/57199>  
Central Maine Power: <http://www.cmpco.com/OurCompany/News/2011/news110417.html> , <http://www.westport-news.com/default/article/Maine-utilities-catch-up-on-power-restorations-1341521.php>  
Bangor Hydro Electric: [http://www.bhe.com/about/outages/outage\\_notification.cfm](http://www.bhe.com/about/outages/outage_notification.cfm) ,  
<http://www.wlbz2.com/news/article/156199/3/Nearly-35000-wind-outages-in-Maine> , <http://www.westport-news.com/default/article/Maine-utilities-catch-up-on-power-restorations-1341521.php>  
Nashville Electric Service: <http://www.nespower.com/OutageMap/default.aspx>  
, <http://nashvillecitypaper.com/content/city-news/severe-storms-cause-downtown-damage-12000-without-power>  
DTE: <http://www.dteenergy.com/map/outage.html> ,  
<http://www.freep.com/article/20110417/NEWS05/110417020/DTE-4-000-without-power-crews-working-through-night-?odyssey=tab|topnews|text|FRONTPAGE> ,  
<http://www.detnews.com/article/20110418/METRO/104180365/1361/1-3-inches-of-snow-falls-on-Metro-Detroit>  
Consumers Energy: [http://www.mlive.com/news/grand-rapids/index.ssf/2011/04/consumers\\_energy\\_customers\\_sti.html](http://www.mlive.com/news/grand-rapids/index.ssf/2011/04/consumers_energy_customers_sti.html) ,  
<http://www.wlns.com/Global/story.asp?S=14465598>  
Public Service Company of Oklahoma: <https://www.psoklahoma.com/outages/Default.aspx> ,  
<http://www.kfor.com/news/sns-ap-ok--severeweather-outages.0,828152.story>  
Oklahoma Association of Electric Coops: <http://www.kfor.com/news/sns-ap-ok--severeweather-outages.0,828152.story>  
Oklahoma Gas & Electric: <http://public.oge.com/systemwatch/SystemWatch.swf?startMapID=1> ,  
<http://www.kfor.com/news/sns-ap-ok--severeweather-outages.0,828152.story>

## **Apparent Tornado Forces Shut Both Units at Dominion's 1,625 MW Surry Nuclear Power Plant in Virginia April 16**

An apparent tornado touched down on the switchyard supporting the plant and its access road on April 16, cutting off electrical feed from the grid to the station and forcing offline both of the facility's units, Dominion Virginia Power said in a press release. The units shut automatically and back-up diesel generators started immediately. The apparent tornado did not strike either nuclear unit. The company declared an unusual event, according to a filing with the Nuclear Regulatory Commission (NRC). The NRC reported that on the morning of April 16 the 810 MW Unit 1 was operating at full power and the 815 MW Unit 2 was operating at 98 percent.

<http://dom.mediaroom.com/index.php?s=43&item=980>

<http://www.nrc.gov/reading-rm/doc-collections/event-status/event/2011/20110418en.html>

Information also derived from the NRC Power Reactor Status Reports:

<http://www.nrc.gov/reading-rm/doc-collections/event-status/reactor-status/2011/>

## **Electricity**

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### **Entergy's 653 MW Pilgrim Nuclear Unit 1 in Massachusetts Shut by April 18**

The Nuclear Regulatory Commission reported that on the morning of April 17 the unit was operating at 85 percent. Information derived from the NRC Power Reactor Status Reports:

<http://www.nrc.gov/reading-rm/doc-collections/event-status/reactor-status/2011/>

### **Progress Energy's 811 MW Brunswick Nuclear Unit 2 in North Carolina Reduced to 13 Percent by April 18**

The Nuclear Regulatory Commission reported that on the morning of April 17 the unit was operating at 47 percent. Prior to the reduction, the unit had been ramping up from a refueling outage.

Information derived from the NRC Power Reactor Status Reports:

<http://www.nrc.gov/reading-rm/doc-collections/event-status/reactor-status/2011/>

### **FirstEnergy's 821 MW Beaver Valley Nuclear Unit 1 in Pennsylvania Ramped Up to 82 Percent by April 18**

The Nuclear Regulatory Commission (NRC) reported that on the morning of April 17 the unit was operating at 49 percent. The unit was operating at 16 percent on the morning of April 16; it was not operating on the morning of April 15, according to the NRC.

Information derived from the NRC Power Reactor Status Reports:

<http://www.nrc.gov/reading-rm/doc-collections/event-status/reactor-status/2011/>

### **Duke Energy's 1,100 MW McGuire Nuclear Unit 1 in North Carolina Reduced, Ramped Up Over Weekend**

The unit ramped down from full power on the morning of April 15 to 49 percent power by April 16, according to the Nuclear Regulatory Commission (NRC). The unit returned to 92 percent power by April 17 and full power by this morning, the NRC reported.

Information derived from the NRC Power Reactor Status Reports:

<http://www.nrc.gov/reading-rm/doc-collections/event-status/reactor-status/2011/>

### **Failure Temporarily Forces Shut TMPA's 454 MW Gibbons Creek Coal-Fired Power Plant in Texas April 15**

"A sudden failure of the 'B' air pre-heater" forced shut the Texas Municipal Power Agency's 454 MW Gibbons Creek coal-fired power plant in Texas on April 15, but the shutdown ended within hours, according to multiple filings with state regulators.

<http://www11.tceq.state.tx.us/oc/eer/index.cfm?fuseaction=main.getDetails&target=153384>

<http://www11.tceq.state.tx.us/oc/eer/index.cfm?fuseaction=main.getDetails&target=153385>

### **AES's 336 MW Alamos Gas-Fired Unit 4 in California Shut by April 16**

According to the California Independent System Operator, the unit reported an unplanned outage by April 16.

<http://www.caiso.com/unitstatus/data/unitstatus201104161515.html>

## **Update: Calpine's 188 MW Los Esteros Gas-Fired Unit in California Returns to Service by April 16**

According to the California Independent System Operator, the unit reported a return from an unplanned outage.  
<http://www.caiso.com/unitstatus/data/unitstatus201104161515.html>

## **Update: Entergy Files Complaint to Prevent State from Forcing Offline Company's 563 MW Vermont Yankee Nuclear Power Plant in Vermont**

Entergy Corporation filed a complaint in U.S. District Court for the District of Vermont seeking to prevent the state of Vermont from forcing the company to shut its Vermont Yankee nuclear power plant when the facility's existing operating license expires in March of 2012. The Nuclear Regulatory Commission renewed the plant's operating license in March of 2011, but the state of Vermont must still authorize the company to continue operations.

[http://www.entergy.com/news\\_room/newsrelease.aspx?NR\\_ID=2102](http://www.entergy.com/news_room/newsrelease.aspx?NR_ID=2102)

## **Pattern Energy, Samsung Renewable Energy Plan 270 MW South Kent Wind Farm in Ontario, Canada**

The companies are developing the project this year.

<http://www.prnewswire.com/news-releases/pattern-energy-and-samsung-renewable-energy-acquire-wind-development-projects-from-suncor-energy-and-northland-power-120055639.html>

## ***Petroleum***

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### **Total to Fix Leak at 240,000 b/d Port Arthur, Texas Refinery April 15-16**

Total isolated an exchanger in a bid to identify the source of a leak at its 240,000 b/d Port Arthur, Texas refinery on April 15-16, it said in a filing with state regulators. The company expected to shut the equipment to fix the leak, according to the filing. It was not clear if the incident had any impact on production.

<http://www11.tceq.state.tx.us/oc/eer/index.cfm?fuseaction=main.getDetails&target=153371>

<http://www.bloomberg.com/news/2011-04-15/total-plans-to-remove-texas-refinery-equipment-from-service-1-.html>

### **Failure Leads to Benzene Release at ConocoPhillips' 247,000 b/d Sweeny, Texas Refinery April 16-17**

The shutdown of a pollution control device (RTO) led to a benzene and VOC release from a waste water tank at the facility on April 16-17, ConocoPhillips said in a filing with state regulators. The company was working to restart the RTO, according to the filing. It was not clear if the incident had any impact on production.

<http://www11.tceq.state.tx.us/oc/eer/index.cfm?fuseaction=main.getDetails&target=153393>

<http://www.bloomberg.com/news/2011-04-17/conocophillips-has-benzene-emissions-at-sweeny-refinery-in-texas.html>

### **Unit Shuts, Restarts at Valero's 80,887 b/d Wilmington, California Refinery April 18**

The shutdown of a sulphur unit led to an SO<sub>2</sub> release on April 18, but operators restarted the unit later in the day, according to the company and a regulatory filing. The incident did not materially impact production.

<http://www.oes.ca.gov/Operational/MALHaz.nsf/f1841a103c102734882563e200760c4a/edc0686667984bf58825787600429b6e?OpenDocument>

Reuters, 08:55 April 18, 2011

Reuters, 08:11 April 18, 2011

Reuters, 10:41 April 18, 2011

### **Fire Forces Shut Multiple Units at Placid Refining's 55,000 b/d Port Allen, Louisiana Refinery April 17**

A fire led Placid Refining to shut a crude unit and multiple other processing units on April 17. The company extinguished the blaze; it said the incident would have "minimal impact on fuel supplies to its customers."

<http://www.bloomberg.com/news/2011-04-18/gulf-gasoline-strengthens-amid-refinery-outages-maintenance.html>

Reuters, 11:09 April 18, 2011

## Unit Upset Causes SO2 Release at Motiva's 235,000 b/d Convent, Louisiana Refinery by April 18

The release came from the sulfur unit, according to a regulatory filing. The company was "controlling the unit and stabilizing the situation," the filing said. It was not clear if the incident had any impact on production.  
Reuters, 00:20 April 18, 2011

## U.S. Oil and Natural Gas Well Completions Rise by 29 Percent in First Quarter of 2011, Compared to Same Quarter in 2010: API

An estimated 10,431 oil wells, natural gas wells, and dry holes were completed throughout the United States in the first quarter of 2011, up 29 percent from 2010's first quarter but down almost 8 percent from 2009's first quarter, the American Petroleum Institute said on April 15. An estimated 5,718 oil wells were drilled in the first quarter of 2011, compared to 3,860 gas wells.

<http://www.api.org/Newsroom/well-completions-up.cfm>

## Oil Production to Rise from 71,000 b/d to 421,000 b/d by 2015 in Eagle Ford Shale, Texas: BENTEK Energy

Oil production is expected to rise from 71,000 b/d at present to 421,000 b/d by 2015, and dry natural gas production is slated to rise from 1.4 Bcf/d at present to more than 3.5 Bcf/d by 2014, BENTEK Energy said on April 18. NGL production in the Shale's central sector, meanwhile, is forecast to rise from 103 million b/d at present to nearly 260 million b/d.

BSW, 06:15 April 18, 2011

## U.K. Total Oil Liquids Production Dips by 110,000 b/d from 2009 to 2010

Total oil liquids production dipped by 106,000 b/d in 2008, by 73,000 b/d in 2009, and by 110,000 b/d in 2010, compared to previous years. Production is expected to decline by another 150,000 b/d in 2011, according to Barclays.

[http://www.rigzone.com/news/article.asp?a\\_id=106206](http://www.rigzone.com/news/article.asp?a_id=106206)

## Natural Gas

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Nothing to report.

## Other News

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### Tokyo Electric Power Hopes to Control Situation in Six-to-Nine Months at Fukushima Daiichi Nuclear Power Plant in Japan

Tokyo Electric Power hopes to control the situation within six-to-nine months at its earthquake-and-tsunami-damaged Fukushima Daiichi nuclear power plant in Japan, it said on April 17. The company aims to bring the facility's reactors into a "cold shutdown" by the end of that time frame.

<http://www.guardian.co.uk/world/2011/apr/17/japan-nuclear-crisis-nine-months>

## Energy Prices

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U.S. Oil and Gas Prices			
April 18, 2011			
	Today	Week Ago	Year Ago
<b>CRUDE OIL</b> <b>West Texas Intermediate U.S.</b> \$/Barrel	106.92	109.75	82.69
<b>NATURAL GAS</b> <b>Henry Hub</b> \$/Million Btu	4.23	4.05	3.97

Source: Reuters

## **Energy Notes**

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### **Explosion Destroys Santee Electric Substation in Hemingway, South Carolina April 16**

<http://www2.scnw.com/news/2011/apr/16/hemingway-substation-explosion-leaves-thousands-wi-ar-1725770/>

### **Underground Electric Explosion Cuts Power to Neighborhood in Los Angeles, California April 15**

[http://abclocal.go.com/kabc/story?section=news/local/los\\_angeles&id=8076757](http://abclocal.go.com/kabc/story?section=news/local/los_angeles&id=8076757)

### **Storms Topple Power Line, Leading to Fire and Manhole Explosion in Westport, Connecticut April 17 – Fire Extinguished Quickly**

[http://www.westportnow.com/index.php?v2\\_5/comments/manhole\\_explosion\\_tied\\_to\\_downed\\_tree\\_limb/](http://www.westportnow.com/index.php?v2_5/comments/manhole_explosion_tied_to_downed_tree_limb/)

### **TVA to Install Satellite Telephones, Small Portable Generators at Nuclear Power Plants in Alabama and Tennessee – Company Could Improve Power, Water Supplies at Facility’s Nuclear Waste Pools and Move Faster to Transfer Nuclear Waste into Dry Cask Equipment**

<http://www.timesfreepress.com/news/2011/apr/15/tva-board-discusses-changes-nuclear-reactors/>

### **Palm Beach County Solid Waste Authority Plans 95 MW Waste-Based Power Facility in Florida**

[http://www.downstreamtoday.com/news/article.aspx?a\\_id=26374](http://www.downstreamtoday.com/news/article.aspx?a_id=26374)

### **Update: U.S. State Department Issues Supplemental Environmental Impact Statement in Apparent Support of TransCanada’s Proposed Alberta-to-U.S. Gulf Coast Keystone XL Pipeline April 15**

<http://www.state.gov/r/pa/prs/ps/2011/04/161015.htm>

[http://www.downstreamtoday.com/news/article.aspx?a\\_id=26373](http://www.downstreamtoday.com/news/article.aspx?a_id=26373)

### **ExxonMobil Sees No Impact on Production after Snag, Brief Emissions Event at 567,000 b/d Baytown, Texas Refinery April 15**

<http://www11.tceq.state.tx.us/oc/eer/index.cfm?fuseaction=main.getDetails&target=153388>

### **OGX Says its Blocks in Campos and Parnaíba Basins Offshore Brazil Contain 6.7 Billion Barrels of Oil Equivalent – Company’s Acreage in Colombia Contains 1.1 Billion Barrels of Oil Equivalent**

<http://www.ogx.com.br/cgi/cgilua.exe/sys/start.htm?infoid=525&lng=us&sid=50>

### **Multiple Trucks Catch Fire at Chesapeake Energy-Operated Drilling Location in Louisiana April 15 – No Injuries or Environmental Damage Reported**

<http://www.shreveporttimes.com/article/20110416/NEWS01/104160319/0/OPINION0106/Fire-destroys-10-18-wheelers-natural-gas-drilling-site?odyssey=nav|head>

### **Bloom Energy to Quadruple Size of Fuel Cell Box Manufacturing Facility in Sunnyvale, California**

<http://www.reuters.com/article/2011/04/15/us-bloomenergy-idUSTRE73E7SN20110415>

### **Socal Gas, SDG&E Unable to Locate Complete Pressure Test Records for Approximately 450 Miles of Natural Gas Pipelines in California**

[http://online.wsj.com/article/SB10001424052748703702004576269242239641886.html?ru=yahoo&mod=yahoo\\_hs](http://online.wsj.com/article/SB10001424052748703702004576269242239641886.html?ru=yahoo&mod=yahoo_hs)

## Malfunction, Compressor Shutdown Lead to Natural Gas Venting at North Cross Facility 4 in Texas April 17

<http://www11.tceq.state.tx.us/oc/eer/index.cfm?fuseaction=main.getDetails&target=153395>

## Transmitter Failure Leads to Emissions Event at Aker Gas Plant in Texas April 16

<http://www11.tceq.state.tx.us/oc/eer/index.cfm?fuseaction=main.getDetails&target=153386>

## Grass Fire Burns Sales Pipeline, Forcing Southern Union to Shut Gas Plant in Texas April 16-26

<http://www11.tceq.state.tx.us/oc/eer/index.cfm?fuseaction=main.getDetails&target=153390>

## Power Failure Triggers AGI Unit Shutdowns at Tilden Gas Plant in Texas April 15 – Units Restarted within Hours

<http://www11.tceq.state.tx.us/oc/eer/index.cfm?fuseaction=main.getDetails&target=153374>

## Power Failure Leads to Venting, Shutdown at West Credo Booster Station in Texas April 15

<http://www11.tceq.state.tx.us/oc/eer/index.cfm?fuseaction=main.getDetails&target=153383>

## Links

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***This Week in Petroleum*** from the Energy Information Administration (EIA)

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

Updated every Wednesday.

***Weekly Petroleum Status Report*** from EIA

[http://www.eia.doe.gov/oil\\_gas/petroleum/data\\_publications/weekly\\_petroleum\\_status\\_report/wpsr.html](http://www.eia.doe.gov/oil_gas/petroleum/data_publications/weekly_petroleum_status_report/wpsr.html)

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

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

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

Updated after 2:00 PM EST every Thursday.

### ENERGY ASSURANCE DAILY

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

Please direct comments and questions to: [ead@oe.netl.doe.gov](mailto:ead@oe.netl.doe.gov)