***TRANSMISSION LINE & SUBSTATION PROJECTS***

***COMPANY: ENTERGY SERVICES, INC.***

***CUSTOMER: EDP RENEWABLES NORTH AMERICA LLC***

## ***FACILITIES STUDY***

***EJO # F4PPAR0526***

***MISO Facility Study: T015***

# ***TRANSMISSION SERVICE FACILITIES STUDY***

## ***OASIS# 77355706***

***System Impact Study: ICTT-2013-099***

**Revision: 0B**

| Rev | Issue Date | Description of Revision | Prepared By | Approved By |
|---|---|---|---|---|
| 0 | 02/21/13 | Submitted to PD | KC | AH |
| 0A | 02/21/13 | Minor Edits | GWR | |
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| | | | | |

** Note: All required JET approvals and other stakeholder concurrences are shown in the voting polls in eRoom.*

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# 1. PROJECT SUMMARY

## 1.1. Background and Project Need

The purpose of this Facilities Study is to determine the availability of transfer capability across Entergy's transmission system from Oklahoma Gas & Electric (OKGE) to Southern Company (SOCO) to evaluate the EPD Renewable (Horizon Wind) request for 100 MW of yearly point to point transmission service. The time period for this transfer is from 1/1/2015 until 1/1/2020. The direction of the transaction is OKGE to SOCO. The study was performed on the latest available 2014-2023 winter and 2015-2023 summer peak seasonal models using PSS/E and MUST software by Power Technologies Incorporated (PTI).

The facilities study identifies any transmission constraints resulting from the requested power transfer. The facilities study also includes cost estimates to correct any transmission constraints.

## 1.2. Scope Summary

No Entergy system upgrades were identified as a result of this request.

### 1.2.1 TVA Affected System

TVA has been identified as an affected system. The customer will need to satisfy the requirements deemed necessary by TVA.

### 1.2.2 Rollover rights

Rollover rights are available

## 1.3. Cost Summary

- None

## 1.4. Schedule Summary

- None

## 1.5. Automatic Generation Control

- Not applicable

# 2. SAFETY REQUIREMENTS

- Not applicable

## 3. GENERAL ASSUMPTIONS

- Not applicable

## 4. SCOPE OF WORK

- Not applicable

## 5. COST

The ICT has reviewed and determined whether each required upgrade will be considered a Base Plan Upgrade or a Supplemental Upgrade. For more information on cost responsibility for Base Plan and Supplemental Upgrades, see Attachment T to Entergy's OATT.

No upgrades or FFRs have been identified.

## 6. SCHEDULE

- Not applicable

## 7. RISK ASSESSMENT

- Not applicable

## 8. CONFIRMED RESERVATIONS

| OASIS | | PSE | MW | Begin | End |
|---|---|---|---|---|---|
| 569011 | | Entergy Services, Inc. (EMO) | 242 | 3/1/2000 | 1/1/2014 |
| 759196 | | Entergy Services, Inc. (EMO) | 143 | 1/1/2001 | 1/1/2021 |
| 759294 | | East Texas Electric Cooperative | 31 | 1/1/2001 | 1/1/2018 |
| 1096986 | | Tennessee Valley Authority | 73 | 9/1/2003 | 9/1/2013 |
| 1099991 | (renewal) | City Water & Light, Jonesboro | 83 | 1/1/2010 | 1/1/2016 |
| 1099997 | (renewal) | City Water & Light, Jonesboro | 168 | 1/1/2010 | 1/1/2016 |
| 1105665 | | Entergy Services, Inc. (EMO) | 236 | 2/1/2003 | 2/1/2016 |
| 1105666 | | Entergy Services, Inc. (EMO) | 91 | 2/1/2003 | 2/1/2027 |
| 1105668 | | Entergy Services, Inc. (EMO) | 77 | 2/1/2003 | 2/1/2027 |
| 1126821 | | Entergy Services, Inc. (EMO) | 101 | 5/1/2004 | 5/1/2029 |
| 1151106 | | Entergy Services, Inc. (EMO) | 20 | 6/1/2010 | 6/1/2029 |
| 1168061 | | Entergy Services, Inc. (EMO) | 80 | 8/1/2004 | 2/1/2028 |
| 1168408 | | Entergy Services, Inc. (EMO) | 247 | 8/1/2004 | 2/1/2028 |
| 1289686 | (delist) | Entergy Services, Inc. (EMO) | 1 | 6/1/2007 | 6/1/2030 |
| 1294132 | | Entergy Services, Inc. (EMO) | 526 | 1/1/2006 | 1/1/2035 |
| 1309874 | (renewal) | East Texas Electric Cooperative | 75 | 1/1/2009 | 1/1/2017 |
| 1309875 | (renewal) | East Texas Electric Cooperative | 50 | 1/1/2009 | 1/1/2017 |
| 1309876 | (renewal) | East Texas Electric Cooperative | 50 | 1/1/2009 | 1/1/2017 |
| 1356328 | | Muni Energy Agcy of Miss | 40 | 6/1/2010 | 6/1/2040 |

| OASIS | | PSE | MW | Begin | End |
|---|---|---|---|---|---|
| 1373643 | | City of Conway | 25 | 3/1/2010 | 3/1/2040 |
| 1375299 | | Louisiana Generating LLC | 11 | 3/1/2006 | 3/1/2013 |
| 1375559 | | CLECO Power LLC (Gen) | 675 | 12/1/2006 | 12/1/2016 |
| 1380484 | | Osceola Light & Power | 9 | 9/1/2009 | 9/1/2039 |
| 1381398 | | Constellation Energy Commodities Grp. | 34 | 1/1/2006 | 1/1/2036 |
| 1381400 | | Constellation Energy Commodities Grp. | 34 | 1/1/2006 | 1/1/2036 |
| 1381404 | | Constellation Energy Commodities Grp. | 17 | 1/1/2006 | 1/1/2036 |
| 1381406 | | Constellation Energy Commodities Grp. | 17 | 1/1/2006 | 1/1/2036 |
| 1383852 | | Arkansas Electric Cooperative Corp. | 550 | 1/1/2007 | 1/1/2017 |
| 1385158 | | NRG Power Marketing | 13 | 10/1/20070 | 10/1/2027 |
| 1387272 | | CLECO Power LLC (Gen) | 11 | 4/1/2006 | 4/1/2016 |
| 1401985 | | Constellation Energy Commodities Grp. | 42 | 8/1/2006 | 8/1/2036 |
| 1410022 | | Constellation Energy Commodities Grp. | 60 | 3/1/2010 | 3/1/2040 |
| 1422708 | (delist) | Entergy Services, Inc. (EMO) | 1 | 1/1/2007 | 1/1/2027 |
| 1425495 | | East Texas Electric Cooperative | 50 | 3/1/2010 | 3/1/2045 |
| 1442453 | | NRG Power Marketing | 320 | 6/1/2007 | 6/1/2026 |
| 1449495 | | Entergy Services, Inc. (EMO) | 322 | 6/1/2009 | 6/1/2059 |
| 1460876 | | Aquila Networks-MPS | 75 | 3/1/2009 | 3/1/2029 |
| 1460878 | | Aquila Networks-MPS | 75 | 3/1/2009 | 3/1/2029 |
| 1460879 | | Aquila Networks-MPS | 75 | 3/1/2009 | 3/1/2029 |
| 1460881 | | Aquila Networks-MPS | 75 | 3/1/2009 | 3/1/2029 |
| 1460898 | | Louisiana Energy & Power Authority | 3 | 1/1/2009 | 1/1/2030 |
| 1460899 | | Louisiana Energy & Power Authority | 5 | 1/1/2009 | 1/1/2030 |
| 1461442 | | Louisiana Energy & Power Authority | 12 | 1/1/2009 | 1/1/2030 |
| 1464028 | | East Texas Electric Cooperative | 168 | 1/1/2010 | 1/1/2040 |
| 1470484 | | City of West Memphis | 20 | 1/1/2011 | 1/1/2041 |
| 1470811 | | East Texas Electric Cooperative | 186 | 1/1/2010 | 1/1/2040 |
| 1477069 | | Entergy Services, Inc. (EMO) | 10 | 11/1/2007 | 11/1/2037 |
| 1480164 | | Entergy Services, Inc. (EMO) | 725 | 1/1/2005 | 9/1/2033 |
| 1495910 | | Southwestern Electric | 78 | 5/1/2010 | 5/1/2013 |
| 1498122 | | Constellation Energy Commodities Grp. | 30 | 4/1/2012 | 4/1/2042 |
| 1498129 | | City of Conway | 50 | 4/1/2012 | 4/1/2042 |
| 1500582 | (delist) | Entergy Services, Inc. (EMO) | 1 | 1/1/2008 | 1/1/2038 |
| 1500584 | (delist) | Entergy Services, Inc. (EMO) | 1 | 1/1/2008 | 1/1/2038 |
| 1514102 | | East Texas Electric Cooperative | 29 | 1/1/2008 | 1/1/2017 |

| OASIS | | PSE | MW | Begin | End |
|---|---|---|---|---|---|
| 1514104 | | East Texas Electric Cooperative | 35 | 1/1/2008 | 1/1/2017 |
| 1514105 | (delist) | East Texas Electric Cooperative | 1 | 1/1/2008 | 1/1/2017 |
| 1517005 | (renewal) | NRG Power Marketing | 103 | 1/1/2011 | 1/1/2026 |
| 1525820 | (renewal) | NRG Power Marketing | 3 | 7/1/2009 | 7/1/2014 |
| 1530287 | | Empire District Electric | 50 | 3/1/2010 | 3/1/2030 |
| 1530288 | | Empire District Electric | 50 | 3/1/2010 | 3/1/2030 |
| 1546108 | (delist) | Entergy Services, Inc. (EMO) | 1 | 1/1/2011 | 1/1/2051 |
| 1552148 | (delist) | Entergy Services, Inc. (EMO) | 1 | 1/1/2009 | 1/1/2014 |
| 1555717 | (delist) | East Texas Electric Cooperative | 1 | 1/1/2010 | 1/1/2015 |
| 1555718 | | Entergy Services, Inc. (EMO) | 158 | 1/1/2010 | 1/1/2015 |
| 1557220 | (delist) | Entergy Services, Inc. (EMO) | 1 | 7/1/2009 | 7/1/2018 |
| 1557221 | | Entergy Services, Inc. (EMO) | 520 | 7/1/2009 | 7/1/2018 |
| 1557602 | (delist) | East Texas Electric Cooperative | 1 | 1/1/2009 | 1/1/2017 |
| 1564001 | (renewal) | Louisiana Energy & Power Authority | 6 | 4/1/2009 | 4/1/2014 |
| 1564356 | (renewal) | NRG Power Marketing | 5 | 9/1/2009 | 9/1/2025 |
| 1585225 | (renewal) | City of Prescott | 22 | 4/1/2009 | 4/1/2039 |
| 1598022 | (renewal) | NRG Power Marketing | 103 | 7/1/2010 | 7/1/2015 |
| 1598291 | | Entergy Services, Inc. (EMO) | 206 | 6/1/2012 | 6/1/2042 |
| 1598885 | (renewal) | Morgan Stanley Commodities Group | 102 | 1/1/2009 | 1/1/2014 |
| 1598886 | (renewal) | Morgan Stanley Commodities Group | 102 | 1/1/2009 | 1/1/2014 |
| 1601111 | | Constellation | 5 | 1/1/2010 | 1/1/2015 |
| 1615102 | (renewal) | MidAmerican Energy, Inc. | 50 | 1/1/2009 | 1/1/2014 |
| 1615103 | | MidAmerican Energy, Inc. | 50 | 1/1/2009 | 1/1/2014 |
| 1615105 | | MidAmerican Energy, Inc. | 50 | 1/1/2009 | 1/1/2014 |
| 1615108 | | MidAmerican Energy, Inc. | 50 | 1/1/2009 | 1/1/2014 |
| 1629240 | | MidAmerican Energy, Inc. | 7 | 3/1/2009 | 3/1/2014 |
| 1630065 | | NRG Power Marketing | 40 | 1/1/2010 | 1/1/2015 |
| 1632265 | | Merrill Lynch Commodities | 1 | 4/1/2009 | 4/1/2014 |
| 1633701 | | NRG Power Marketing | 20 | 1/1/2010 | 1/1/2019 |
| 1633702 | | NRG Power Marketing | 20 | 1/1/2010 | 1/1/2016 |
| 1633703 | | NRG Power Marketing | 20 | 1/1/2010 | 1/1/2016 |
| 1639337 | | Entergy Services, Inc. (EMO) | 587 | 3/1/2009 | 1/1/2019 |
| 1639338 | | Entergy Services, Inc. (EMO) | 103 | 3/1/2009 | 1/1/2019 |
| 1639339 | | Entergy Services, Inc. (EMO) | 32 | 3/1/2009 | 1/1/2019 |
| 1639340 | | Entergy Services, Inc. (EMO) | 122 | 3/1/2009 | 1/1/2019 |
| 1639341 | | Entergy Services, Inc. (EMO) | 134 | 3/1/2009 | 1/1/2019 |
| 1640629 | | CLECO Power Marketing | 58 | 5/1/2001 | 1/1/2021 |
| 1640630 | | CLECO Power Marketing | 32 | 5/1/2001 | 1/1/2021 |
| 1643983 | (renewal) | NRG Power Marketing | 300 | 1/1/2010 | 1/1/2015 |
| 1643984 | (renewal) | NRG Power Marketing | 100 | 9/1/2010 | 9/1/2015 |
| 1644155 | | CLECO Power Marketing | 9 | 4/1/2009 | 5/1/2016 |
| 1644215 | | NRG Power Marketing | 83 | 1/1/2010 | 1/1/2025 |
| 1644908 | | CLECO Power Marketing | 41 | 5/1/2009 | 5/1/2018 |

| OASIS | | PSE | MW | Begin | End |
|---|---|---|---|---|---|
| 1648049 | (delist) | Entergy Services, Inc. (EMO) | 1 | 6/1/2010 | 6/1/2013 |
| 1648050 | | Entergy Services, Inc. (EMO) | 100 | 6/1/2010 | 6/1/2013 |
| 1655366 | | Missouri Joint Municipal | 6 | 10/1/2009 | 10/1/2014 |
| 1658087 | | Entergy Services (SPO) | 1 | 6/1/2012 | 6/1/2042 |
| 1658088 | | SMEPA | 21 | 6/1/2012 | 6/1/2042 |
| 1659388 | | NRG Power Marketing | 25 | 1/1/2011 | 1/1/2016 |
| 1665288 | | Merrill Lynch Commodities | 15 | 1/1/2011 | 1/1/2017 |
| 1665492 | (renewal) | Merrill Lynch Commodities | 16 | 11/1/2009 | 11/1/2014 |
| 1665493 | (renewal) | Merrill Lynch Commodities | 4 | 11/1/2009 | 11/1/2014 |
| 1665899 | | Ameren Energy, Inc. | 75 | 9/1/2009 | 9/1/2014 |
| 1668165 | | Entergy Services (SPO) | 600 | 1/1/2013 | 1/1/2043 |
| 1669126 | (renewal) | Cargill Power Markets, LLC | 103 | 1/1/2011 | 1/1/2016 |
| 1669127 | (renewal) | Cargill Power Markets, LLC | 103 | 1/1/2011 | 1/1/2016 |
| 1676674 | | NRG Power Marketing | 100 | 1/1/2011 | 1/1/2020 |
| 1676675 | | NRG Power Marketing | 100 | 1/1/2011 | 1/1/2020 |
| 1677749 | | Entergy Services, Inc. (EMO) | 1 | 1/1/2013 | 1/1/2015 |
| 1679179 | (renewal) | NRG Power Marketing | 100 | 1/1/2011 | 1/1/2016 |
| 1679181 | (renewal) | NRG Power Marketing | 100 | 1/1/2011 | 1/1/2016 |
| 1685869 | (renewal) | Muni Energy Agcy of Miss | 19 | 1/1/2010 | 1/1/2018 |
| 1689499 | | Missouri Joint Municipal | 3 | 9/1/2009 | 9/1/2014 |
| 1690613 | | NRG Power Marketing | 25 | 1/1/2011 | 1/1/2016 |
| 1694305 | | Entergy Services (SPO) | 15 | 5/1/2010 | 5/1/2020 |
| 1694306 | | Entergy Services (SPO) | 30 | 5/1/2010 | 5/1/2020 |
| 73454527 | | Hope Water & Light | 10 | 10/1/2009 | 10/1/2032 |
| 73457918 | | South Miss Electric Power Assoc. | 180 | 10/1/2009 | 10/1/2014 |
| 73573797 | (renewal) | American Electric Power | 45 | 1/1/2011 | 1/1/2029 |
| 73586299 | (renewal) | American Electric Power | 6 | 1/1/2011 | 1/1/2029 |
| 73595626 | | NRG Power Marketing | 13 | 1/1/2012 | 1/1/2017 |
| 73724303 | | Arkansas Electric Cooperative Corp. | 104 | 1/1/2010 | 1/1/2015 |
| 73741113 | (renewal) | Entergy Services, Inc. (EMO) | 150 | 5/1/2010 | 5/1/2020 |
| 73741122 | (renewal) | Entergy Services, Inc. (EMO) | 135 | 5/1/2010 | 5/1/2020 |
| 73820650 | | MOWR | 5 | 3/1/2010 | 3/1/2040 |
| 73884547 | | MOWR | 35 | 8/1/2010 | 8/1/2040 |
| 73884558 | | MOWR | 40 | 8/1/2010 | 8/1/2040 |
| 73942862 | (renewal) | Muni Energy Agcy of Miss | 13 | 6/1/2010 | 6/1/2015 |
| 73970673 | | Cargill Power Markets, LLC | 40 | 1/1/2012 | 1/1/2016 |
| 73987480 | | South Miss Electric Power Assoc. | 100 | 5/1/2010 | 5/1/2040 |
| 73987507 | | South Miss Electric Power Assoc. | 180 | 6/1/2010 | 6/1/2015 |
| 73990804 | | South Miss Electric Power Assoc. | 100 | 5/1/2010 | 5/1/2040 |
| 74001787 | | NRG Power Marketing | 100 | 1/1/2011 | 1/1/2016 |
| 74001895 | | NRG Power Marketing | 100 | 1/1/2011 | 1/1/2016 |

| OASIS | | PSE | MW | Begin | End |
|---|---|---|---|---|---|
| 74001897 | | NRG Power Marketing | 22 | 1/1/2011 | 1/1/2016 |
| 74001904 | | NRG Power Marketing | 28 | 1/1/2011 | 1/1/2016 |
| 74001930 | | NRG Power Marketing | 42 | 8/1/2006 | 8/1/2036 |
| 74001931 | | NRG Power Marketing | 60 | 3/1/2010 | 3/1/2040 |
| 74001934 | | NRG Power Marketing | 60 | 4/1/2012 | 4/1/2042 |
| 74233619 | | WRGS | 15 | 4/1/2012 | 4/1/2017 |
| 74233670 | (delist) | Entergy Services, Inc. (EMO) | 1 | 8/1/2012 | 1/1/2038 |
| 74236787 | | NRG Power Marketing | 75 | 6/1/2012 | 6/1/2017 |
| 74236794 | | NRG Power Marketing | 100 | 6/1/2012 | 6/1/2017 |
| 74236798 | | NRG Power Marketing | 100 | 6/1/2012 | 6/1/2017 |
| 74305315 | | NRG Power Marketing | 10 | 1/1/2014 | 1/1/2017 |
| 74305339 | | NRG Power Marketing | 10 | 1/1/2013 | 1/1/2023 |
| 74356639 | | NRG Power Marketing | 103 | 1/1/2011 | 1/1/2016 |
| 74356652 | | NRG Power Marketing | 206 | 6/1/2012 | 6/1/2017 |
| 74356666 | | NRG Power Marketing | 50 | 1/1/2013 | 1/1/2014 |
| 74408208 | | Louisiana Energy & Power Authority | 13 | 9/1/2010 | 9/1/2015 |
| 74408225 | | Louisiana Energy & Power Authority | 45 | 9/1/2010 | 9/1/2015 |
| 74514903 | | Entergy Services, Inc. (EMO) | 20 | 6/1/2013 | 6/1/2029 |
| 74514911 | | Entergy Services, Inc. (EMO) | 101 | 6/1/2013 | 6/1/2029 |
| 74691007 | | NRG Power Marketing | 60 | 1/1/2013 | 1/1/2018 |
| 74728415 | | Brazos Electric Cooperative | 100 | 1/1/2012 | 1/1/2017 |
| 74777205 | (renewal) | NRG Power Marketing | 300 | 1/1/2013 | 1/1/2033 |
| 74777208 | (renewal) | NRG Power Marketing | 300 | 1/1/2015 | 1/1/2035 |
| 74789476 | (delist) | Entergy Services, Inc. (EMO) | 1 | 1/1/2012 | 1/1/2016 |
| 74829975 | (renewal) | CLECO Power LLC (Gen) | 35 | 1/1/2011 | 1/1/2016 |
| 74835023 | | AECI / APM | 103 | 1/1/2012 | 1/1/2017 |
| 74881866 | (renewal) | NRG Power Marketing | 8 | 3/1/2011 | 3/1/2021 |
| 74899933 | | Entergy Services (SPO) | 322 | 2/1/2011 | 2/1/2041 |
| 74899954 | (delist) | Entergy Services, Inc. (EMO) | 1 | 2/1/2012 | 2/1/2014 |
| 74899956 | | Entergy Services, Inc. (EMO) | 100 | 2/1/2012 | 2/1/2014 |
| 74899968 | (delist) | Entergy Services, Inc. (EMO) | 1 | 1/1/2013 | 1/1/2015 |
| 74899969 | (delist) | Entergy Services, Inc. (EMO) | 1 | 1/1/2012 | 1/1/2015 |
| 74899972 | (delist) | Entergy Services (SPO) | 1 | 1/1/2015 | 1/1/2045 |
| 74899974 | (delist) | Entergy Services (SPO) | 1 | 1/1/2015 | 1/1/2045 |
| 74899976 | (delist) | Entergy Services (SPO) | 1 | 1/1/2015 | 1/1/2045 |
| 74899980 | | Entergy Services (SPO) | 584 | 1/1/2015 | 1/1/2045 |
| 74899988 | (delist) | Entergy Services (SPO) | 1 | 6/1/2012 | 6/1/2042 |
| 74899989 | | Entergy Services (SPO) | 485 | 6/1/2012 | 6/1/2042 |
| 74901827 | (delist) | Entergy Services, Inc. (EMO) | 1 | 2/1/2011 | 2/1/2041 |
| 74958042 | | NRG Power Marketing | 34 | 1/1/2006 | 1/1/2036 |
| 74958045 | | NRG Power Marketing | 34 | 1/1/2006 | 1/1/2036 |
| 74958047 | | NRG Power Marketing | 17 | 1/1/2006 | 1/1/2036 |
| 74958048 | | NRG Power Marketing | 17 | 1/1/2006 | 1/1/2036 |
| 75207302 | (renewal) | Entergy Services, Inc. (EMO) | 1 | 7/1/2011 | 7/1/2016 |

| OASIS | | PSE | MW | Begin | End |
|---|---|---|---|---|---|
| 75259845 | | South Miss Electric Power Assoc. | 2 | 4/1/2012 | 1/1/2040 |
| 75265640 | (renewal) | South Miss Electric Power Assoc. | 75 | 6/1/2011 | 6/1/2016 |
| 75299243 | | AECI | 103 | 1/1/2012 | 1/1/2017 |
| 75342276 | | Cargill Power Markets | 202 | 12/1/2012 | 12/1/2017 |
| 75460486 | | MOWR | 103 | 4/1/2012 | 4/1/2037 |
| 75495258 | (renewal) | NRG Power Marketing | 13 | 1/1/2017 | 1/1/2019 |
| 75564309 | | ETEC | 50 | 5/1/2014 | 5/1/2044 |
| 75826033 | | CPWM | 600 | 4/1/2014 | 4/1/2033 |
| 76120007 | renewal | CLECO Power Marketing | 10 | 10/1/2012 | 10/1/2017 |
| 76234876 | | Entergy Services (SPO) | 1 | 6/1/2012 | 6/1/2042 |
| 76234879 | | Entergy Services (SPO) | 194 | 6/1/2012 | 6/1/2042 |
| 76234889 | | Entergy Services (SPO) | 256 | 1/1/2016 | 1/1/2043 |
| 76234897 | | Entergy Services (SPO) | 35 | 1/1/2016 | 1/1/2043 |
| 76234904 | | Entergy Services (SPO) | 1 | 6/1/2012 | 6/1/2042 |
| 76234916 | | Entergy Services (SPO) | 140 | 6/1/2012 | 6/1/2042 |
| 76234922 | | Entergy Services (SPO) | 1 | 5/1/2013 | 5/1/2042 |
| 76234951 | | Entergy Services (SPO) | 5 | 5/1/2013 | 5/1/2042 |
| 76234980 | | Entergy Services (SPO) | 1 | 1/1/2014 | 1/1/2043 |
| 76234993<br>76235000<br>76235003 | | Entergy Services (SPO) | 475 | 1/1/2014 | 1/1/2043 |
| 76238089 | | Entergy Services (SPO) | 20 | 1/1/2014 | 1/1/2043 |
| 76280552 | (delist) | Entergy Services (SPO) | 1 | 6/1/2012 | 6/1/2042 |
| 76280558 | (delist) | Entergy Services (SPO) | 1 | 5/1/2013 | 5/1/2042 |
| 76336174 | (redirect) | NRG Power Marketing | 206 | 6/1/2013 | 6/1/2017 |
| 76449800 | | Arkansas Electric Cooperative Corp. | 275 | 1/1/2013 | 1/1/2014 |
| | | | 300 | 1/1/2014 | 1/1/2015 |
| | | | 320 | 1/1/2015 | 1/1/2017 |
| 76449828 | | Arkansas Electric Cooperative Corp. | 80 | 1/1/2013 | 1/1/2014 |
| | | | 82 | 1/1/2014 | 1/1/2015 |
| | | | 84 | 1/1/2015 | 1/1/2016 |
| | | | 86 | 1/1/2016 | 1/1/2017 |
| 76513126 | (delist) | Constellation Energy Commodities Grp. | 1 | 1/1/2012 | 1/1/2017 |
| 76513148 | (delist) | Constellation Energy Commodities Grp. | 1 | 1/1/2012 | 1/1/2017 |
| 76513215 | | EWOM | 60 | 11/1/2009 | 11/1/2014 |
| 76513304 | (renewal) | EWOM | 60 | 11/1/2014 | 11/1/2019 |
| 76523750 | | SRMPA | 180 | 6/1/2012 | 6/1/2018 |
| 76523753 | | SRMPA | 30 | 6/1/2012 | 6/1/2016 |
| 76523754 | | EWOM | 45 | 6/1/2012 | 6/1/2016 |
| 76533177 | | EWOM | 25 | 4/1/2009 | 4/1/2014 |
| 76533260 | (renewal) | EWOM | 25 | 4/1/2014 | 4/1/2019 |

| OASIS | | PSE | MW | Begin | End |
|---|---|---|---|---|---|
| 76583976 | | Arkansas Electric Cooperative Corp. | 660 | 9/1/2012 | 9/1/2017 |
| 76744580 | (deferral) | South Miss Electric Power Assoc. | 2 | 1/1/2013 | 1/1/2040 |
| 76767669 | | NRG Power Marketing | 103 | 6/1/2013 | 6/1/2017 |
| 76794133 | | NRG Power Marketing | 1 | 1/1/2014 | 1/1/2022 |
| 76794134 | | NRG Power Marketing | 1 | 1/1/2014 | 1/1/2022 |
| 76794135 | | NRG Power Marketing | 1 | 1/1/2014 | 1/1/2022 |
| 76794138 | | NRG Power Marketing | 1 | 1/1/2014 | 1/1/2022 |
| 76794140 | | NRG Power Marketing | 309 | 1/1/2014 | 1/1/2019 |
| 76794150 | | NRG Power Marketing | 1 | 1/1/2014 | 1/1/2019 |
| 76794151 | | NRG Power Marketing | 309 | 1/1/2014 | 1/1/2019 |
| 76794321 | | NRG Power Marketing | 10 | 1/1/2013 | 1/1/2025 |
| 76975184 | | Entergy Services (SPO) | 28 | 1/1/2013 | 1/1/2033 |
| 76999226 | | SWCC | 78 | 5/1/2013 | 5/1/2018 |
| 77020374 | (renewal) | Tennessee Valley Authority | 73 | 9/1/2013 | 9/1/2023 |
| 77065320 | (renewal) | Entergy Services (SPO) | 10 | 7/1/2012 | 7/1/2013 |
| 77161524 | | Entergy Services (SPO) | 495 | 1/1/2014 | 1/1/2017 |
| 77176931 | | NRG Power Marketing | 525 | 6/1/2014 | 6/1/2024 |

## 9. PRE-888 TRANSACTIONS

| OASIS # | | PSE | MW | Begin | End |
|---|---|---|---|---|---|
| 1332606 | | East Texas Electric Cooperative | 55 | 1/1/2006 | 1/1/2017 |
| 1412155 | | Entergy Services, Inc. (EMO) | 1718 | 1/1/2007 | 1/1/2038 |
| 1412156 | | Entergy Services, Inc. (EMO) | 741 | 1/1/2007 | 1/1/2038 |
| 1412158 | | Entergy Services, Inc. (EMO) | 1867 | 1/1/2007 | 1/1/2038 |
| 1412160 | | Entergy Services, Inc. (EMO) | 1142 | 1/1/2007 | 1/1/2038 |
| 1412161 | | Entergy Services, Inc. (EMO) | 59 | 1/1/2007 | 1/1/2038 |
| 1412162 | | Entergy Services, Inc. (EMO) | 148 | 1/1/2007 | 1/1/2038 |
| 1412163 | | Entergy Services, Inc. (EMO) | 194 | 1/1/2007 | 1/1/2038 |
| 1412164 | | Entergy Services, Inc. (EMO) | 1157 | 1/1/2007 | 1/1/2038 |
| 1412165 | | Entergy Services, Inc. (EMO) | 1219 | 1/1/2007 | 1/1/2038 |
| 1412166 | | Entergy Services, Inc. (EMO) | 683 | 1/1/2007 | 1/1/2038 |
| 1412167 | | Entergy Services, Inc. (EMO) | 140 | 1/1/2007 | 1/1/2038 |
| 1412168 | | Entergy Services, Inc. (EMO) | 456 | 1/1/2007 | 1/1/2038 |
| 1412169 | | Entergy Services, Inc. (EMO) | 739 | 1/1/2007 | 1/1/2038 |
| 1412170 | | Entergy Services, Inc. (EMO) | 183 | 1/1/2007 | 1/1/2038 |
| 1412171 | | Entergy Services, Inc. (EMO) | 64 | 1/1/2007 | 1/1/2038 |
| 1412172 | | Entergy Services, Inc. (EMO) | 870 | 1/1/2007 | 1/1/2038 |
| 1412173 | | Entergy Services, Inc. (EMO) | 129 | 1/1/2007 | 1/1/2038 |
| 1412174 | | Entergy Services, Inc. (EMO) | 140 | 1/1/2007 | 1/1/2038 |
| 1412175 | | Entergy Services, Inc. (EMO) | 130 | 1/1/2007 | 1/1/2038 |
| 1412176 | | Entergy Services, Inc. (EMO) | 65 | 1/1/2007 | 1/1/2038 |
| 1412177 | | Entergy Services, Inc. (EMO) | 947 | 1/1/2007 | 1/1/2038 |

| OASIS # | | PSE | MW | Begin | End |
|---|---|---|---|---|---|
| 1412178 | | Entergy Services, Inc. (EMO) | 61 | 1/1/2007 | 1/1/2038 |
| 1412179 | | Entergy Services, Inc. (EMO) | 304 | 1/1/2007 | 1/1/2038 |
| 1412180 | | Entergy Services, Inc. (EMO) | 351 | 1/1/2007 | 1/1/2038 |
| 1412181 | | Entergy Services, Inc. (EMO) | 692 | 1/1/2007 | 1/1/2038 |
| 1412182 | | Entergy Services, Inc. (EMO) | 1641 | 1/1/2007 | 1/1/2038 |
| 1412183 | | Entergy Services, Inc. (EMO) | 433 | 1/1/2007 | 1/1/2038 |
| 1412184 | | Entergy Services, Inc. (EMO) | 1926 | 1/1/2007 | 1/1/2038 |
| 1412185 | | Entergy Services, Inc. (EMO) | 946 | 1/1/2007 | 1/1/2038 |
| 1412186 | | Entergy Services, Inc. (EMO) | 1233 | 1/1/2007 | 1/1/2038 |
| 1498278 | | Entergy Services, Inc. (EMO) | 75 | 8/1/2007 | 1/1/2017 |
| 1498281 | | Entergy Services, Inc. (EMO) | 86 | 8/1/2007 | 1/1/2017 |
| 1498283 | | Entergy Services, Inc. (EMO) | 68 | 8/1/2007 | 1/1/2017 |
| 1498284 | | Entergy Services, Inc. (EMO) | 78 | 8/1/2007 | 1/1/2017 |
| 1498285 | | Entergy Services, Inc. (EMO) | 11 | 8/1/2007 | 1/1/2044 |
| 1498286 | | Entergy Services, Inc. (EMO) | 69 | 8/1/2007 | 1/1/2044 |
| 1498287 | | Entergy Services, Inc. (EMO) | 14 | 8/1/2007 | 1/1/2044 |
| 1528114 | | Entergy Services, Inc. (EMO) | 1523 | 1/1/2008 | 1/1/2038 |
| 1528115 | | Entergy Services, Inc. (EMO) | 1039 | 1/1/2008 | 1/1/2038 |
| 1528116 | | Entergy Services, Inc. (EMO) | 1834 | 1/1/2008 | 1/1/2038 |
| 76120467 | Renewal for 1412178 | Entergy Services, inc. (EMO) | 61 | 1/1/2038 | 1/1/2045 |
| 76120472 | Renewal for 1412172 | Entergy Services, inc. (EMO) | 870 | 1/1/2038 | 1/1/2045 |
| 76120479 | Replaces 1412155 | Entergy Services, Inc. (EMO) | 1738 | 1/1/2012 | 1/1/2045 |
| 76234797 | Renewal for 1412163 | Entergy Services, Inc. (EMO) | 194 | 1/1/2038 | 1/1/2043 |
| 76234817 | Renewal for 1412174 | Entergy Services, Inc. (EMO) | 140 | 1/1/2038 | 1/1/2043 |
| 76234827 | Renewal for 1412170 | Entergy Services, Inc. (EMO) | 183 | 1/1/2038 | 1/1/2043 |
| 76234836 | Renewal for 1412180 | Entergy Services, Inc. (EMO) | 351 | 1/1/2038 | 1/1/2043 |
| 76292988 | Replaces 1412155 | Entergy Services, Inc. (EMO) | 190 | 1/1/2012 | 1/1/2043 |
| 76292990 | Replaces 1412155 | Entergy Services, Inc. (EMO) | 144 | 1/1/2012 | 1/1/2043 |
| 76292992 | Replaces 1412155 | Entergy Services, Inc. (EMO) | 210 | 1/1/2012 | 1/1/2043 |
| 76292993 | Replaces 1412155 | Entergy Services, Inc. (EMO) | 324 | 1/1/2012 | 1/1/2043 |
| 76528782 | | Constellation Energy Commodities Grp. | 5 | 7/1/1988 | 7/1/2027 |

## 10. STUDY QUEUE

| OASIS # | | PSE | MW | Begin | End |
|---|---|---|---|---|---|
| 74846159 | | AEPM | 65 | 1/1/2015 | 1/1/2020 |
| 75206836 | | ETEC | 125 | 1/1/2015 | 1/1/2020 |
| 76744419 | | SMEPA | 280 | 1/1/2014 | 1/1/2025 |
| SPP 74240998_1004_ 1007_1231_1265 | | AEP | 20-116 | 1/1/2011 | 1/1/2020 |
| 76902738 | | CPWM | 80 | 1/1/2013 | 1/1/2018 |
| 77272292 | | Entergy Services (SPO) | 9 | 1/1/2013 | 1/1/2033 |
| 77272300 | | Entergy Services (SPO) | 4 | 1/1/2013 | 1/1/2033 |
| 77289977 | | NRG Power Marketing | 1 | 6/1/2014 | 6/1/2024 |
| 77289995 | | NRG Power Marketing | 309 | 6/1/2014 | 6/1/2024 |
| 77289999 | | NRG Power Marketing | 1 | 6/1/2014 | 6/1/2024 |
| 77290002 | | NRG Power Marketing | 309 | 6/1/2014 | 6/1/2024 |

# 11. ATTACHMENTS

## A. *A Table of Acronyms*

| | |
|---|---|
| ACSR | Aluminum Conductor Steel Reinforced |
| ACSS | Aluminum Conductor Steel Supported |
| ADEQ | Arkansas Department of Environmental Quality |
| AFUDC | Allowance for Funds Used During Construction |
| ATC | Available Transfer Capability |
| EES | Entergy Control Area |
| EHV | Extra-High Voltage |
| ERIS | Energy Resource Interconnection Service |
| ICT | Independent Coordinator of Transmission |
| IPO | Independent Pole operated |
| kV | Kilo-Volt |
| MCM | (M) Thousand Circular Mils |
| MVA | Mega-Volt Amp |
| MW | Mega-Watt |
| NPDES | National Pollution Discharge Elimination System |
| NOI | Notice of Intent |
| NRIS | Network Resource Interconnection Service |
| OASIS | Online Access and Same-time Information System |
| OATT | Open Access Transmission Tariff |
| POD | Point of Delivery |
| POR | Point of Receipt |
| SES | Steam Electric Station |
| SOC | System Operations Center |
| SHV | Super High Voltage |
| SW | Switch Station |
| TOC | Transmission Operations Center |