#### R103-11

# TDI's NYC Merchant CHPE Transmission Project with POI at Astoria (NYISO Queue #305) Deliverability Analysis

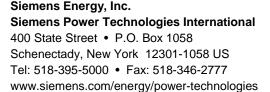
Prepared for

Transmission Developers, Inc.

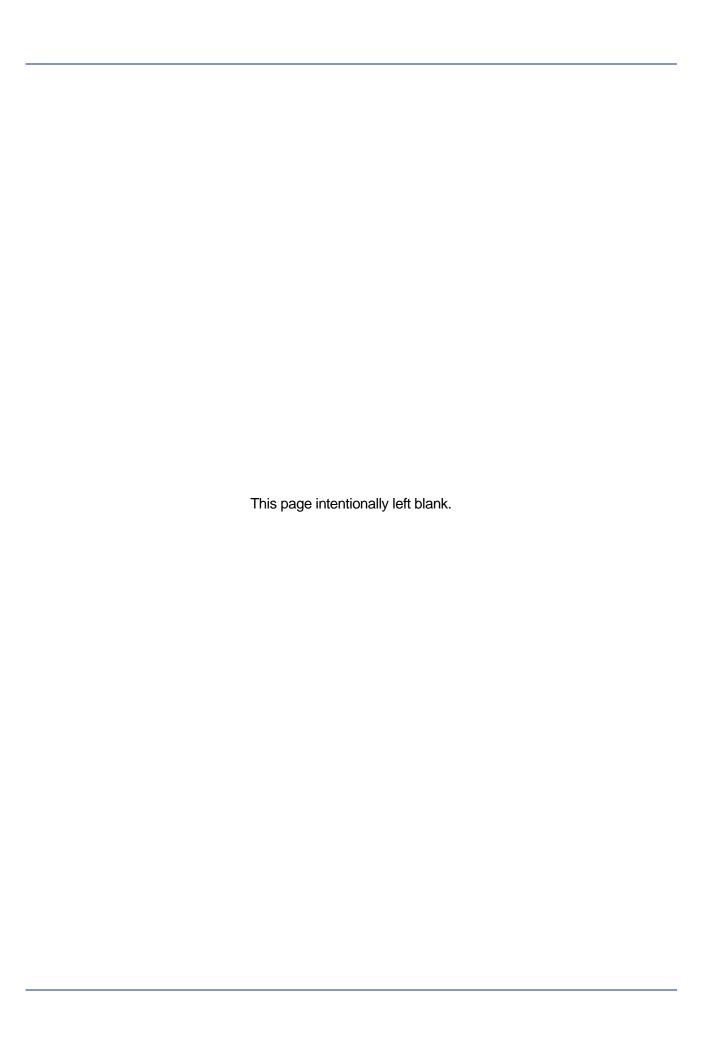
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Siemens PTI Project Number P/21-113610-B-1







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### **Executive Summary**

#### A. Introduction

Siemens Energy, Inc., Siemens Power Technologies International (Siemens PTI) has conducted a preliminary evaluation of the power deliverability of the proposed interconnection of the Transmission Developer Inc. (TDI)'s HVDC Merchant Champlain Hudson Power Express (CHPE) Transmission Project, NY Queue #305 (the "Project"). The Project is expected to inject 1,000 MW into Astoria 345 kV substation which is owned by the New York Power Authority.

The purpose of the deliverability study was to evaluate the capacity and energy deliverability capability at the Astoria 345 kV Substation for the existing system and with the addition of a new 345 kV cable between Astoria and Rainey.

The deliverability study case for thermal analysis primarily utilized base case and PSS®MUST data which the NYISO utilized to perform the deliverability study for the Class Year 2010 Facilities Studies. Additional thermal analysis was performed utilizing the base case in the Optional Interconnection Study for the TDI's Merchant Transmission Project with POI at Astoria (NYISO Queue #305).

#### **B.** Scope of Work

The thermal analysis was performed according to the following scope:

- 1. Capacity Deliverability Analysis
  - Confirm the database and study techniques utilized in this study is consistent with the deliverability study performed for the NYISO Class Year 2010 Facilities Studies.
  - Determine the existing system capacity delivery limit from the Astoria 345 kV substation.
  - c. Determine the capacity delivery limit with a new 345 kV cable between Astoria and Rainey.
  - d. Perform other capacity delivery analysis to determine whether the point of interconnection would affect the capacity delivery limit.
- 2. Energy Deliverability Analysis
  - Determine the existing system energy delivery limit from the Astoria 345 kV substation.
  - b. Determine the effect of implementing a Special Protection System (SPS) or STE Exception at the Astoria 345 kV substation.

- c. Determine the energy delivery limit from the Astoria 345 kV substation with a new 345 kV cable between Astoria and Rainey.
- d. Determine the energy delivery limit from the Astoria 345 kV substation with a new 345 kV cable between Astoria and Rainey plus a SPS or a STE exception.

#### C. Results of the Deliverability Study

The following results are based upon the Siemens PTI system studies:

- 1. Capacity Deliverability Analysis
  - a. Table 2-1. Base Case Capacity Deliverability Capability confirms the database and study techniques utilized in this study is consistent with the deliverability study performed for the NYISO Class Year 2010 Facilities Studies.
  - b. Table 2-1. Base Case Capacity Deliverability Capability also identifies the existing system capacity delivery limit from the Astoria 345 kV substation is 1,076 MW based upon the 538 MW pre-disturbance power flow on each of the E13th Street-Astoria 345 kV cables.
  - c. Table 2-2. Capacity Deliverability Capability With Astoria-Rainey 345 kV Cable identifies the Astoria 345 kV substation capacity delivery limit is increased from 1,076 MW to 1,164 MW with a new 345 kV cable between Astoria and Rainey, based upon the Normal limit of the Rainey 345/138 kV 8W transformer.
  - d. Table 2-3. Capacity Deliverability Capability at W49th Street illustrates that the FCITC capacity delivery limit of project would be essentially the same as if the point of interconnection was at Astoria 345 kV substation. The limit is more dependent upon the participation of generators used to reduce generation within the New York City area than the point of generation injection on the New York 345 kV network.

#### 2. Energy Deliverability Analysis

- a. Table 2-5. Existing System Energy Deliverability Capability from Astoria 345 kV substation is 621 MW based upon the 621 MW post-contingency power flow of one of the E13th Street-Astoria 345 kV cable for the loss of the other E13th Street-Astoria 345 kV cable.
- b. Table 2-5. Existing System Energy Deliverability Capability also illustrates the energy deliverability could be increased to its nominal capability of 1,076 MW if a SPS was available to automatically runback HVDC power flow with the loss of one of the E13th Street-Astoria 345 kV cables. This limit would also be valid if an exception was granted to utilize the post-contingency STE ratings of the E13th Street-Astoria 345 kV cables with a manual runback of the CHPE project.

c. Table 2-6. Energy Deliverability Capability With Astoria-Rainey 345 kV Cable also illustrates that the energy delivery limit from the Astoria 345 kV substation with a new 345 kV cable between Astoria and Rainey plus a SPS or a STE exception would be 1,578 MW.



# Section

### Introduction

Siemens PTI has performed an analysis to investigate the deliverability capability of capacity and energy export from the Astoria 345 kV station. The analysis was performed using PSS®MUST software. The power flow base case and PSS®MUST data were provided by the NYISO. These are the same data that were utilized in the Class Year 2010 Facilities Study Part 2: Deliverability Study and System Deliverability Upgrade Facilities (SDU).



# Section 2

# **Deliverability Analysis**

#### 2.1 Capacity Deliverability Capability

#### 2.1.1 Initial Base Case

Initially the capacity deliverability capability analysis was performed on the base case. The results of the PSS®MUST analysis are included in Appendix A.1 and summarized in Table 2-1. These results for the CHPE project confirm the results indicated in the "Table 7 — Capacity Deliverability within the NYC Capacity Region for the ATRA FCITC limit" of the NYISO report "Class Year 2010 Facilities Studies, Part 2 Studies (Sections 11, 12, 13 only): Deliverability Study and System Deliverability Upgrade Facilities (SDU), Final Report, July 14, 2011" with respect to the Berrians III project.

The base case used in this analysis has Poletti generation dispatched at 829 MW and the Berrians III project at 158 MW. Thus, total generation dispatched at Astoria 345 kV station was 987 MW.

**Astoria** TDI **FCITC** LE From **TDF** Rating Contingency Q305 345 Shift 88.5 247 1076.5 E13ST 47-ASTORIA 345 -0.51 -493.1 538.0 Base Case 91.6 250.1 1077.6 E13ST 48-ASTORIA 345 -0.49-492.9 538.0 Base Case 177.2 335.7 1163.2 RAINEY8W-345/138KV -0.24 -213.8 256.0 Base Case 337.5 178.9 1164.9 RAINEY8W-VERNON 138 0.24 213.4 256.0 Base Case

Table 2-1. Base Case Capacity Deliverability Capability

The small difference between the NYISO results and the results shown in Table 2-3 is due to the fact that the analysis presented in this report only considered the CHPE project. The NYISO analysis evaluated the Berrians III and South Pier Improvement.

The total capacity deliverability capability is indicated in the "Astoria 345" column.

#### 2.1.2 CHPE Q305 Connected to Astoria 345 kV Station With The Astoria-Rainey 345 kV Cable

Analysis was performed to determine the impact of adding to the transmission system a 345 kV cable connecting the Astoria and Rainey substations with the CHPE Q305 project connected to the Astoria 345 kV Station. For this analysis, the Astoria-Rainey cable characteristics were assumed to be similar to the Rainey-Mott Haven 345 kV cable. The results of the PSS®MUST analysis is included in Appendix A.2 and summarized in Table 2-2.

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FCITC	TDI Q305	Astoria 345	LE From	TDF	Pre Shift	Rating	Contingency
177.9	336.5	1164	RAINEY8W-345/138KV	-0.24	-213.6	256.0	Base Case
201.1	359.7	1166	RAINEY8W-VERNON 138	0.24	213.2	256.0	Base Case
350.5	509.1	1337	ASTORIA-RAINEY 345	-0.88	-543.3	851.0	E13ST 47- ASTORIA 345

Table 2-2. Capacity Deliverability Capability With Astoria-Rainey 345 kV Cable

#### 2.1.3 CHPE Q305 Connected to W49th Street

Analysis was performed to determine the impact of moving the CHPE Q305 project to W49th Street Station. The results of the PSS®MUST analysis are included in Appendix A.3 and summarized in Table 2-3.

FCITC	TDI Q305	Astoria 345	LE From	TDF	Pre Shift	Rating	Contingency
199.2	357.7	805.4	RAINEY8W-345/138KV	-0.21	-213.8	256.0	Base Case
201.1	359.8	805.2	RAINEY8W-VERNON 138	0.21	213.4	256.0	Base Case

Table 2-3. Capacity Deliverability Capability at W49th Street

These results indicate that FCITC capacity deliverability capability limit, based upon the Rainey 8W 345 kV transformer, is the basically the same. There is only a small difference of 22 MW due to the location of the project. In both cases the TDF (Transfer Distribution Factor) is greater than 0.20 due to the selection of generators in NYC and their PMAX and PMIN values used in simulation of the transfer limit analysis. Based on the data utilized, the FCITC capacity deliverability limit would essentially be the same if the project were located at other stations in the New York City 345 kV system.

#### 2.2 Energy Deliverability Capability

The NYISO Deliverability test methodology used to determine the Capacity Resource Interconnection Service (CRIS) requires that generation in the rest of the region must be scaled uniformly. However, when energy deliverability is considered, it is conceivable that

the transmission constraint may be relieved by using a security constrained economic dispatch.

Using distribution factor analysis, the generators identified in Table 2-4 were found to have significant impact on the loading of the Rainey 345/138 kV transformer.

Table 2-4. Generation Distribution Factors on Rainey 345/138 kV Transformer

	-
Generator	DFAX
RNYGT4-7	0.55
KEYSPG-1	0.26
RAV 2	0.21
RAV 1	0.21
AST 5	0.16
POLETGT2	0.16
POLETGT1	0.16
POLETTI	0.16
AWGT1	0.16
AWGT2	0.16
AST 3	0.16
POLETSTG	0.16

Energy delivery analysis was performed on a modified base case in which generation was increased 132 MW at Ravenswood 2 and 132 MW was reduced at Ravenswood 3. The PSS®MUST data was also modified to exclude changes to the generators listed in Table 2-4 when generation was shifted from Astoria 345 kV station to the rest of NYC.

#### 2.2.1 Existing System

Initially the energy deliverability capability analysis for the existing system was performed on the modified base case. The results of the PSS®MUST analysis are included in Appendix A.4 and summarized in Table 2-5. These results indicated that energy delivery out of Astoria would be 621 MW based upon one of the E13th Street-Astoria 345 kV cables 621 MW LTE rating for the loss of the other E13th Street-Astoria 345 kV cable. With a SPS which would runback the post contingency power flow on the remaining E13th Street-Astoria 345 kV cables to its LTE rating or with an STE exception, the CHPE Q305 energy delivery capability would be 1,074 MW based upon the base case power flow on the E13th Street-Astoria 345 kV cables.

Table 2-5. Existing System Energy Deliverability Capability

FCITC	TDI Q305	Astoria 345	LE From	TDF	Pre Shift	Rating	Contingency
364.1	212	621	E13ST 47-ASTORIA 345	-1.00	985.1	621.0	E13ST 48- ASTORIA 345
364.1	212	621	E13ST 48-ASTORIA 345	-1.00	985.1	621.0	E13ST 47- ASTORIA 345
89.2	667.9	1074.4	E13ST 47-ASTORIA 345	-0.51	-492.7	538.0	Base Case
89.8	668.4	1074.9	E13ST 47-ASTORIA 345	-1.00	-531.2	621.0	Astoria 345 SPS: 455MW TDI Q305 Runback

#### 2.2.2 Energy Delivery with Astoria-Rainey 345 kV Cable

Energy deliverability capability analysis was performed on the modified base case with a new Astoria-Rainey 345 kV Cable. The results of the PSS<sup>®</sup>MUST analysis are included in Appendix A.5 and summarized in Table 2-6.

Table 2-6 illustrates that the Astoria 345 kV station energy delivery capability would be limited to 1,237 MW based upon the 621 MW LTE rating for the E13st 47-Astoria 345 kV cable for the loss of the Astoria-Rainey 345 kV cable and also be limited to 1,348 MW for loss of an Astoria-E13th St 345 kV cable. TDI is proposing a Special Protection Scheme (SPS) which would automatically runback the output of the CHPE project to reduce the power flow on any of the lines exiting the Astoria substation to below their LTE rating upon a contingency which causes any of the lines to exceed their LTE rating. This will result in an energy delivery capability of 1,578 MW out of the Astoria substation. This limit will also be valid if an exception is granted to utilize the post-contingency STE ratings of the circuits exiting the Astoria substation with a manual runback of the CHPE project.

Table 2-6. Energy Deliverability Capability With Astoria-Rainey 345 kV Cable

FCITC	TDI Q305	Astoria 345	LE From	TDF	Pre Shift	Rating	Contingency
251.5	708.7	1237	E13ST 47-ASTORIA 345	-0.51	-493.2	621.0	ASTORIA-RAINEY 345
260.9	718.1	1246.8	E13ST 48-ASTORIA 345	-0.49	-492.7	621.0	ASTORIA-RAINEY 345
362.0	819.2	1347.9	ASTORIA-RAINEY 345	-0.85	-542.6	851.0	E13ST 47- ASTORIA 345
365.5	822.7	1351.4	ASTORIA-RAINEY 345	-0.85	-538.9	851.0	E13ST 48- ASTORIA 345
367.2	824.4	1353.1	ASTORIA-RAINEY 345	-0.85	-538.9	851.0	SB FARRAGUT 952
582.6	1039.8	1568.5	E13ST 47-ASTORIA 345	-0.51	-324.9	621.0	Astoria 345 SPS: Astoria- Rainey 345 335MW Runback
591.9	1049.1	1577.8	RAINEY8W-345/138KV	-0.18	-148.8	256.0	Base Case
593.0	1050.2	1,578.9	RAINEY8W-VERNON 138	0.18	148.6	256.0	Base Case

#### 2.2.3 Generation Dispatch Changes for Astoria 345 kV 1,578 MW Export

The principal difference between capacity and energy deliverability analysis performed in this study is selection and amounts of generation reduced in the New York City area as generation was increased at the Astoria 345 kV station. The base case generation at Astoria 345 kV station was 987 MW. In order to simulate a 1,578 MW export from the Astoria 345 kV station, the generation at Astoria 345 kV station was increased by 591 MW and the generation in the rest of the New York City was decreased by the same amount.

For the capacity deliverability analysis for the New York City Area, NYISO procedures stipulate that all generators in the rest of the New York City must be scaled proportionally. This dispatch would cause overloads on the Rainey 345/138 kV 8W transformer when the Astoria 345 kV is increased by 177 MW (1,164 MW total).

For the energy delivery, NYISO procedures would implement a generation dispatch which would dispatch the generation within their economic security constraint procedures so that the Rainey 345/138 kV 8W transformer would not result in a security violation. Appendix B illustrates the generation differences which could be utilized to export 1,578 MW from Astoria 345 kV station without causing an overload on the Rainey 345/138 kV 8W transformer. The actual security constrained dispatch would depend upon the system load and economics of available generators.





# **PSS<sup>®</sup>MUST Analysis Results**

**Base Case Capacity Deliverability Capability** 

PSS(R)MUST 10.2 -- Managing and Utilizing System Transmission -- SUN, OCT 23 2011 16:36 <FCT111.0> 2010 NYISO CLASS YEAR ATRA-D REV 3

2015 SUMMER PEAK LOAD W/ 2009 ERAG/MMWG & PJM RTEP 09 UPDATE

Case.File C:\TDIQ305\CY2010\_ATRA\_Deliverablity\_rev8\_UDRproxygen\_TDI1.sav

Subsys.File C:\TDIQ305\Auxiliary files\CY2009 CY2010 .sub Monit.File C:\TDIQ305\Auxiliary files\CY2009\_CY2010\_.mon

Contin.File C:\TDIQ305\Auxiliary files\CY2010\_ATRA\_.com Exclud.File C:\TDIQ305\Auxiliary files\cy2009-2010contingencies.exc

Interface-1 Interface 64 TDIQ3 Init.Flow= 158.53 TDF= 1.0000 Interface-2 Interface 65 AST345 Init.Flow= 988.05 TDF= 1.0000

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		395.5	554.1	554	1383.6	1	126481 RAINEY8W	138	126507 VERNON-W	1 .	0.23835	277.7	372 0	SB:Greenwood138 4S
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ļ					l	⊢								Open 126286 GOWANUSN 345 126427 GOWNUS1T
						_								Remove unit 1 from bus 126271 GOWGT2A 13.8
														Remove unit 1 from bus 126328 GOWGT2B 13.8
						П								Remove unit 1 from bus 126276 GOWGT4A 13.8
						П								Remove unit 1 from bus 126329 GOWGT4B 13.8
					i e	1					1 1			Remove unit 1 from bus 147811 PAGTGOW1 13.8
						_					1 1			Remove unit 2 from bus 147812 PAGTGOW2 13.8
						-					1 1			
														Remove unit 1 from bus 126302 NARRGT1A 13.8
						E								Remove unit 1 from bus 126302 NARRGT1A 13.8 Remove unit 1 from bus 126303 NARRGT1B 13.8
		423.3	581.9	581.8	1411.3		126274 E13ST 47	345	126277 FARRAGUT	3 3	0,40404	201.3		Remove unit 1 from bus 126302 NARRGT1A 13.8 Remove unit 1 from bus 126303 NARRGT1B 13.8 Base Case
		423.3 439.6	581.9 598.3	581.8 598.2	1411.3 1427.7	*	126274 E13ST 47 126481 RAINEY8W	345 138	126277 FARRAGUT 126562 8W DUM		0.46484	201.3 -244.8		Remove unit 1 from bus 126302 NARRGTIA 13.6 Remove unit 1 from bus 126303 NARRGTIB 13.6 Base Case SB:RAIN 345 1E
						*								Remove unit 1 from bus 126302 NARRGT1A 13.8 Remove unit 1 from bus 126303 NARRGT1B 13.8 Base Case
						*								Remove unit 1 from bus 126302 NARRGTIA 13.6 Remove unit 1 from bus 126303 NARRGTIB 13.6 Base Case SB:RAIN 345 1E
						*								Remove unit 1 from bus 126302 NARRGTIA 13.6 Remove unit 1 from bus 126303 NARRGTIB 13.6 Base Case SB.RAIN 345 1E Open 126295 RAINEY 345 126641 MOTT HAVEN Open 126295 RAINEY 345 126561 SE DOW
						*								Remove unit 1 from bus 126302 NARRGTIA 13.6 Remove unit 1 from bus 126303 NARRGTIB 13.6 Base Case SB:RAIN 345 1E Open 126295 RAINEY 345 126641 MOTT HAVEN Open 126295 RAINEY 345 126561 8E DUM Open 126480 RAINEY8E 138 126561 8E DUM
						*								Remove unit 1 from bus 126302 NARRGTIA 13.4   Remove unit 1 from bus 126303 NARRGTIB 13.4   Base Case   SB: RAIN 345 1E   SB: RAIN 345 1E   SB: RAIN 345 1E   SB: RAINEY 345 126541 MOTT HAVEN     Open 126295 RAINEY 345 126561 8E DUM   Open 126400 RAINEYSE 138 126571 RDGTT-7     Open 126561 8E DUM 138 126677 RDGTT-7   Open 126567 RDGTT-7   Open 126677 RDGTT-7   Open 126
		439.6	598.3	598.2	1427.7		126481 RAINEY8W	138	126562 8W DUM	1	0.28943	-244.8	372.0	Remove unit 1 from bus 126302 NARRGTIA 13.4 Remove unit 1 from bus 126303 NARRGTIB 13.4 Base Case SB.RAIN 345 1E Open 126295 RAINEY 345 126641 MOTT HAVEN Open 126295 RAINEY 345 126561 8E DUM Open 126400 RAINEY8E 138 126561 8E DUM Open 126561 8E DUM 138 126677 RNYGT4-7 Remove unit 1 from bus 126736 RNY 285T 13.6
										1			372.0	Remove unit 1 from bus 126302 NARRGTIA 13.6 Remove unit 1 from bus 126303 NARRGTIB 13.6 Base Case SB:RAIN 345 1E Open 126295 RAINEY 345 126641 MOTT HAVEN Open 126295 RAINEY 345 126561 8E DUM Open 126400 RAINEY8E 138 126561 8E DUM Open 126561 8E DUM 138 126677 RNYGT4-7 Remove unit 1 from bus 126736 RNY 2EGT 13.6 SB:RAIN 345 1E
		439.6	598.3	598.2	1427.7		126481 RAINEY8W	138	126562 8W DUM	1	0.28943	-244.8	372.0	Remove unit 1 from bus 126302 NARRGTIA 13.6 Remove unit 1 from bus 126303 NARRGTIB 13.6 Base Case SB: RAIN 345 1E Open 126295 RAINEY 345 126561 8E DUM Open 126408 RAINEY8E 138 126561 8E DUM Open 126618 BD DUM 138 126677 RNYGT4-7 Remove unit 1 from bus 126736 RNY 2EGT 13.6 SB: RAIN 345 1E Open 126295 RAINEY 345 126641 MOTT HAVEN Open 12651 8E DUM 138 126677 RNYGT4-7 Remove unit 1 from bus 126736 RNY 2EGT 13.6 SB: RAIN 345 1E Open 126295 RAINEY 345 126641 MOTT HAVEN
		439.6	598.3	598.2	1427.7		126481 RAINEY8W	138	126562 8W DUM	1	0.28943	-244.8	372.0	Remove unit 1 from bus 126302 NARRGTIA 13.6 Remove unit 1 from bus 126303 NARRGTIB 13.6 Base Case  SB.RAIN 345 1E  Open 126295 RAINEY 345 126641 MOTT HAVEN Open 126400 RAINEYSE 138 126561 SE DUM Open 126400 RAINEYSE 138 126561 SE DUM Open 126561 SE DUM 138 126677 RNYGT4-7 Remove unit 1 from bus 126736 RNY 2EUT 13.0 SB.RAIN 345 1E Open 126295 RAINEY 345 126641 MOTT HAVEN Open 126295 RAINEY 345 126641 MOTT HAVEN
		439.6	598.3	598.2	1427.7		126481 RAINEY8W	138	126562 8W DUM	1	0.28943	-244.8	372.0	Remove unit 1 from bus 126302 NARRGTIA 13.6   Remove unit 1 from bus 126303 NARRGTIB 13.6   Base Case
		439.6	598.3	598.2	1427.7		126481 RAINEY8W	138	126562 8W DUM	1	0.28943	-244.8	372.0	Remove unit 1 from bus 126302 NARRGTIA 13.6 Remove unit 1 from bus 126303 NARRGTIB 13.6 Base Case SB: RAIN 345 1E Open 126295 RAINEY 345 126641 MOTT HAVEN Open 126490 RAINEYS 138 126561 8E DUM Open 126400 RAINEYSE 138 126561 8E DUM Open 126561 8E DUM 138 126677 RNYGT4-7 Remove unit 1 from bus 126736 RNY 2EGT 13.6 SB: RAIN 345 1E Open 126295 RAINEY 345 126641 MOTT HAVEN Open 126295 RAINEY 345 126641 MOTT HAVEN Open 126295 RAINEY 345 126561 8E DUM Open 126400 RAINEYSE 138 126561 8E DUM Open 126400 RAINEYSE 138 126561 8E DUM Open 126400 RAINEYSE 138 126561 8E DUM
		439.6	598.3 599.7	598.2 599.6	1427.7		126481 RAINEYSW	138	126562 8W DUM	1 1	0.28943	-244,8 244,3	372.0	Remove unit 1 from bus 126302 NARRGTIA 13.6 Remove unit 1 from bus 126303 NARRGTIB 13.6 Base Case  SB:RAIN 345 1E  Open 126295 RAINEY 345 126641 MOTT HAVEN Open 126480 RAINEYSE 138 126561 SE DUM Open 126480 RAINEYSE 138 126561 SE DUM Open 126561 SE DUM 138 126677 RNYGT4-7 Remove unit 1 from bus 126736 RNY 2EGT 13.6 SB:RAIN 345 1E Open 126295 RAINEY 345 126641 MOTT HAVEN Open 126295 RAINEY 345 126561 SE DUM Open 126400 RAINEYSE 138 126561 SE DUM Open 126400 RAINEYSE 138 126561 SE DUM Open 126561 SE DUM 138 126577 RNYGT4-7 Remove unit 1 from bus 126736 RNY 2EGT 13.6 Remove unit 1 from bus 126736 RNY 2EGT 13.6 Remove unit 1 from bus 126736 RNY 2EGT 13.6
		439.6	598.3	598.2	1427.7		126481 RAINEY8W	138	126562 8W DUM	1 1	0.28943	-244.8	372.0	Remove unit 1 from bus 126302 NARRGTIA 13.6 Remove unit 1 from bus 126303 NARRGTIB 13.6 Base Case SB: RAIN 345 1E Open 126295 RAINEY 345 126641 MOTT HAVEN Open 126490 RAINEYS 138 126561 8E DUM Open 126400 RAINEYSE 138 126561 8E DUM Open 126561 8E DUM 138 126677 RNYGT4-7 Remove unit 1 from bus 126736 RNY 2EGT 13.6 SB: RAIN 345 1E Open 126295 RAINEY 345 126641 MOTT HAVEN Open 126295 RAINEY 345 126641 MOTT HAVEN Open 126295 RAINEY 345 126561 8E DUM Open 126400 RAINEYSE 138 126561 8E DUM Open 126400 RAINEYSE 138 126561 8E DUM Open 126400 RAINEYSE 138 126561 8E DUM
		439.6	598.3 599.7	598.2 599.6	1427.7		126481 RAINEYSW	138	126562 8W DUM	1 1	0.28943	-244,8 244,3	372.0	Remove unit 1 from bus 126302 NARRGTIA 13.6 Remove unit 1 from bus 126303 NARRGTIA 13.6 Remove unit 1 from bus 126303 NARRGTIB 13.6 Base Case SB: RAIN 345 1E Open 126295 RAINEY 345 126561 8E DUM Open 126295 RAINEY 138 126561 8E DUM Open 1266761 8E DUM 138 126677 RNYGT4-7 Remove unit 1 from bus 126736 RNY 2EGT 13.6 SB: RAIN 345 1E Open 126295 RAINEY 345 126561 8E DUM Open 126295 RAINEY 345 126641 MOTT HAVEN Open 126295 RAINEY 345 126561 8E DUM Open 126295 RAINEY 345 126561 8E DUM Open 126295 RAINEY 138 126561 8E DUM Open 126295 RAINEY 138 126561 8E DUM Open 126561 8E DUM 138 126577 RNYGT4-7 Remove unit 1 from bus 126736 RNY 2EGT 13.6 SB: W 49 345 5
		439.6	598.3 599.7	598.2 599.6	1427.7		126481 RAINEYSW	138	126562 8W DUM	1 1	0.28943	-244,8 244,3	372.0	Remove unit 1 from bus 126302 NARRGTIA 13.6 Remove unit 1 from bus 126303 NARRGTIB 13.6 Base Case SB: RAIN 345 1E Open 126295 RAINEY 345 126641 MOTT HAVEN Open 126408 RAINEYE 138 126561 8E DUM Open 126408 RAINEYE 138 126561 8E DUM Open 126561 8E DUM 138 126677 RNYGT4-7 Remove unit 1 from bus 126736 RNY 2EGT 13.6 SB: RAIN 345 1E Open 126295 RAINEY 345 126561 8E DUM Open 126607 RNYGT4-7 Remove unit 1 from bus 126736 RNY 2EGT 13.6 SB: RAIN 345 1E Open 126295 RAINEY 345 126561 8E DUM Open 126616 8E DUM 138 126578 RNYGT4-7 Remove unit 1 from bus 126736 RNY 2EGT 13.6 SB: W 49 345 5 Open 126298 SPRAINBROOK 345 126518 REACMS2
		439.6	598.3 599.7	598.2 599.6	1427.7		126481 RAINEYSW	138	126562 8W DUM	1 1	0.28943	-244,8 244,3	372.0	Remove unit 1 from bus 126302 NARRGTIA   13.6
		439.6	598.3 599.7	598.2 599.6	1427.7		126481 RAINEYSW	138	126562 8W DUM	1 1	0.28943	-244,8 244,3	372.0	Remove unit 1 from bus 126302 NARRGTIA 13.6 Remove unit 1 from bus 126303 NARRGTIA 13.6 Remove unit 1 from bus 126303 NARRGTIB 13.6 Base Case SB: RAIN 345 1E Open 126295 RAINEY 345 126561 8E DUM Open 126408 RAINEY8E 138 126561 8E DUM Open 126616 8E DUM 138 126677 RNYGT4-7 Remove unit 1 from bus 126736 RNY 2EGT 13.6 SB: RAIN 345 1E Open 126295 RAINEY 345 126561 8E DUM Open 126295 RAINEY 345 126641 MOTT HAVEN Open 126295 RAINEY 345 126561 8E DUM Open 126295 RAINEY 345 126561 8E DUM Open 12640 PAINEY8E 138 126561 8E DUM Open 126501 8E DUM 138 126677 RNYGT4-7 Remove unit 1 from bus 126736 RNY 2EGT 13.6 SB: W 49 345 5 Open 126298 SPRAINEROK 345 126518 REACM52 Open 126304 W 49 ST 345 126518 REACM52 Open 126375 W49 XI DUM 138 126518 REACM52 Open 126375 W49 XI DUM 138 126518 REACM52
		439.6	598.3 599.7	598.2 599.6	1427.7		126481 RAINEYSW	138	126562 8W DUM	1 1	0.28943	-244,8 244,3	372.0	Remove unit 1 from bus 126302 NARRGTIA 13.6 Remove unit 1 from bus 126303 NARRGTIA 13.6 Remove unit 1 from bus 126303 NARRGTIB 13.6 Base Case SB.RAIN 345 1E Open 126295 RAINEY 345 126561 8E DUM Open 126408 RAINEYE 138 126561 8E DUM Open 126408 RAINEYE 138 126567 RENGT4-7 Remove unit 1 from bus 126736 RNY 28GT 13.6 SB.RAIN 345 1E Open 126295 RAINEY 345 126641 MOTT HAVEN Open 126408 RAINEYE 138 126677 RNYGT4-7 Remove unit 1 from bus 126736 RNY 28GT 13.6 Open 126295 RAINEY 345 126561 8E DUM Open 126616 8E DUM 138 126561 8E DUM Open 126616 8E DUM 138 126671 RNYGT4-7 Remove unit 1 from bus 126736 RNY 28GT 13.6 SB.RAI 345 15 Open 126395 WAY SB.RAINEY 138 126578 RRAINGT4-7 Remove unit 1 from bus 126736 RNY 28GT 13.6 Open 126304 W 49 ST 345 126518 REACMS2 Open 126304 W 49 ST 345 126518 REACMS2 Open 126375 W49 XI DUM 138 126543 W49 XI T
		441.1	598.3 599.7 599.7	598.2	1427.7		126481 RAINEY8W  126481 RAINEY8W  126480 RAINEY8E	138	126562 8W DUM  126507 VERNON-W  126561 8E DUM	1 2	0.28943	-244.8 244.3 -233.1	372.0 372.0	Remove unit 1   from bus 126302 NARRGTIA   13.6
		439.6	598.3 599.7	598.2 599.6	1427.7		126481 RAINEYSW	138	126562 8W DUM	1 2	0.28943	-244,8 244,3	372.0 372.0	Remove unit 1 from bus 126302 NARRGTIA 13.6 Remove unit 1 from bus 126303 NARRGTIB 13.6 Base Case SB: RAIN 345 1E Open 126295 RAINEY 345 126641 MOTT HAVEN Open 126495 RAINEY 345 126561 8E DUM Open 126460 RAINEYSE 138 126561 8E DUM Open 126561 8E DUM 138 126677 RNYGT4-7 Remove unit 1 from bus 126736 RNY 2EGT 13.6 SB: RAIN 345 1E Open 126295 RAINEY 345 126561 8E DUM Open 126295 RAINEY 345 126641 MOTT HAVEN Open 126295 RAINEY 345 126641 MOTT HAVEN Open 126295 RAINEY 345 126641 MOTT HAVEN Open 126295 RAINEY 345 126561 8E DUM Open 126480 RAINEYBE 138 126577 RNYGT4-7 Remove unit 1 from bus 126736 RNY 2EGT 13.6 SB: RAI 49 345 5 Open 126375 W49 XI DUM 138 126376 RAY 2EGT 13.6 Open 126375 W49 XI DUM 138 126574 RAYGT4-7 Open 126375 W49 XI DUM 138 126574 W49 XI T Open 126375 W49 XI DUM 138 126574 W49 XI T Open 126375 W49 XI DUM 138 126574 W49 XI T Open 126375 W49 XI DUM 138 126574 W49 XI T Open 126375 W49 XI DUM 138 126574 W49 XI T Open 126375 W49 XI DUM 138 126574 W49 XI T Open 126375 W49 XI DUM 138 126575 W49 XI DUM SB: W 49 345 5
		441.1	598.3 599.7 599.7	598.2	1427.7		126481 RAINEY8W  126481 RAINEY8W  126480 RAINEY8E	138	126562 8W DUM  126507 VERNON-W  126561 8E DUM	1 2	0.28943	-244.8 244.3 -233.1	372.0 372.0	Remove unit 1 from bus 126302 NARRGTIA 13.6 Remove unit 1 from bus 126303 NARRGTIB 13.6 Base Case SB.RAIN 345 1E Open 126295 RAINEY 345 126641 MOTT HAVEN Open 126400 RAINEY8E 138 126561 8E DUM Open 126400 RAINEY8E 138 126561 8E DUM Open 126561 8E DUM 138 126776 RNYGT4-7 Remove unit 1 from bus 126736 RNY 2867 13.6 SB.RAIN 345 1E Open 126295 RAINEY 345 126561 8E DUM Open 126400 RAINEY8E 138 126561 8E DUM Open 126616 8E DUM 138 126677 RNYGT4-7 Remove unit 1 from bus 126736 RNY 2867 13.6 SB.RAIN 345 15 Open 126298 SPRAINEY8E 138 126561 8E DUM Open 126400 RAINEY8E 138 126571 RNYGT4-7 Remove unit 1 from bus 126736 RNY 2867 13.6 SB.W 49 345 5 Open 126375 W49 XI DUM 138 126543 W49 XI T Open 126375 W49 XI DUM 138 126576 W49 XI DUM Open 126375 W49 XI DUM 138 126576 W49 XI DUM Open 126304 W 49 ST 345 126518 REACM52 Open 126304 W 49 ST 345 126518 REACM52 Open 126304 W 49 ST 345 126578 W49 XI DUM SB.W 49 345 5 Open 126304 W 49 ST 345 126578 W49 XI DUM SB.W 49 345 5 Open 126398 SPRAINBROOK 345 126518 REACM52
		441.1	598.3 599.7 599.7	598.2	1427.7		126481 RAINEY8W  126481 RAINEY8W  126480 RAINEY8E	138	126562 8W DUM  126507 VERNON-W  126561 8E DUM	1 2	0.28943	-244.8 244.3 -233.1	372.0 372.0	Remove unit 1 from bus 126302 NARRGTIA 13.6 Remove unit 1 from bus 126303 NARRGTIB 13.6 Base Case SB: RAIN 345 1E Open 126295 RAINEY 345 126641 MOTT HAVEN Open 126495 RAINEY 345 126561 8E DUM Open 126460 RAINEYSE 138 126561 8E DUM Open 126561 8E DUM 138 126677 RNYGT4-7 Remove unit 1 from bus 126736 RNY 2EGT 13.6 SB: RAIN 345 1E Open 126295 RAINEY 345 126561 8E DUM Open 126295 RAINEY 345 126641 MOTT HAVEN Open 126295 RAINEY 345 126641 MOTT HAVEN Open 126295 RAINEY 345 126641 MOTT HAVEN Open 126295 RAINEY 345 126561 8E DUM Open 126480 RAINEYBE 138 126577 RNYGT4-7 Remove unit 1 from bus 126736 RNY 2EGT 13.6 SB: RAI 49 345 5 Open 126375 W49 XI DUM 138 126376 RAY 2EGT 13.6 Open 126375 W49 XI DUM 138 126574 RAYGT4-7 Open 126375 W49 XI DUM 138 126574 W49 XI T Open 126375 W49 XI DUM 138 126574 W49 XI T Open 126375 W49 XI DUM 138 126574 W49 XI T Open 126375 W49 XI DUM 138 126574 W49 XI T Open 126375 W49 XI DUM 138 126574 W49 XI T Open 126375 W49 XI DUM 138 126574 W49 XI T Open 126375 W49 XI DUM 138 126575 W49 XI DUM SB: W 49 345 5
		441.1	598.3 599.7 599.7	598.2	1427.7		126481 RAINEY8W  126481 RAINEY8W  126480 RAINEY8E	138	126562 8W DUM  126507 VERNON-W  126561 8E DUM	1 2	0.28943	-244.8 244.3 -233.1	372.0 372.0	Remove unit 1 from bus 126302 NARRGTIA 13.6 Remove unit 1 from bus 126303 NARRGTIB 13.6 Base Case SB.RAIN 345 1E Open 126295 RAINEY 345 126641 MOTT HAVEN Open 126400 RAINEY8E 138 126561 8E DUM Open 126400 RAINEY8E 138 126561 8E DUM Open 126561 8E DUM 138 126776 RNYGT4-7 Remove unit 1 from bus 126736 RNY 2867 13.6 SB.RAIN 345 1E Open 126295 RAINEY 345 126561 8E DUM Open 126400 RAINEY8E 138 126561 8E DUM Open 126616 8E DUM 138 126677 RNYGT4-7 Remove unit 1 from bus 126736 RNY 2867 13.6 SB.RAIN 345 15 Open 126298 SPRAINEY8E 138 126561 8E DUM Open 126400 RAINEY8E 138 126571 RNYGT4-7 Remove unit 1 from bus 126736 RNY 2867 13.6 SB.W 49 345 5 Open 126375 W49 XI DUM 138 126543 W49 XI T Open 126375 W49 XI DUM 138 126576 W49 XI DUM Open 126375 W49 XI DUM 138 126576 W49 XI DUM Open 126304 W 49 ST 345 126518 REACM52 Open 126304 W 49 ST 345 126518 REACM52 Open 126304 W 49 ST 345 126578 W49 XI DUM SB.W 49 345 5 Open 126304 W 49 ST 345 126578 W49 XI DUM SB.W 49 345 5 Open 126398 SPRAINBROOK 345 126518 REACM52
		441.1	598.3 599.7 599.7	598.2	1427.7		126481 RAINEY8W  126481 RAINEY8W  126480 RAINEY8E	138	126562 8W DUM  126507 VERNON-W  126561 8E DUM	1 2	0.28943	-244.8 244.3 -233.1	372.0 372.0	Remove unit 1 from bus 126302 NARRGTIA 13.6 Remove unit 1 from bus 126303 NARRGTIA 13.6 Remove unit 1 from bus 126303 NARRGTIB 13.6 Base Case SB: RAIN 345 1E Open 126295 RAINEY 345 126561 8E DUM Open 126295 RAINEY 138 126561 8E DUM Open 126661 8E DUM 138 126561 8E DUM Open 126661 8E DUM 138 126677 RNYGT4-7 Remove unit 1 from bus 126736 RNY 2EGT 13.6 SB: RAIN 345 1E Open 126295 RAINEY 345 126561 8E DUM Open 126306 RAINEY 138 126561 8E DUM Open 126501 8E DUM 138 126577 RNYGT4-7 Remove unit 1 from bus 126736 RNY 2EGT 13.6 SB: W 49 345 5 Open 126304 W 49 ST 345 126518 REACM52 Open 126375 W49 XI DUM 138 126578 W49 XI DUM Open 126375 W49 XI DUM 138 126376 W49 XI T Open 126304 W 49 ST 345 126378 W49 XI DUM Open 126304 W 49 ST 345 126378 W49 XI DUM Open 126304 W 49 ST 345 126378 W49 XI DUM Open 126304 W 49 ST 345 126378 W49 XI DUM Open 126304 W 49 ST 345 126518 REACM52
		441.1	598.3 599.7 599.7	598.2	1427.7		126481 RAINEY8W  126481 RAINEY8W  126480 RAINEY8E	138	126562 8W DUM  126507 VERNON-W  126561 8E DUM	1 2	0.28943	-244.8 244.3 -233.1	372.0 372.0	Remove unit 1   from bus 126302 NARRGTIA   13.4
		439.6 441.1 444.6 447.9	598.3 599.7 599.7 603.2	598.2 599.6 603.1	1429.1 1429.1 1432.6	*	126481 RAINEY8W  126481 RAINEY8W  126480 RAINEY8E	138	126562 8W DUM  126507 VERNON-W  126561 8E DUM  126506 VERNON-E	1 3	0.28943	-244.8 244.3 -233.1	372.0 372.0 342.0	Remove unit 1 from bus 126302 NARRGTIA   13.6
		441.1	598.3 599.7 599.7	598.2 599.6 603.1	1427.7	*	126481 RAINEY8W  126481 RAINEY8W  126480 RAINEY8E	138	126562 8W DUM  126507 VERNON-W  126561 8E DUM	1 3	0.28943	-244.8 244.3 -233.1	372.0 372.0 342.0	Remove unit 1 from bus 126302 NARRGTIA 13.6 Remove unit 1 from bus 126303 NARRGTIA 13.6 Remove unit 1 from bus 126303 NARRGTIB 13.6 Base Case SB: RAIN 345 1E Open 126295 RAINEY 345 126641 MOTT HAVEN Open 126295 RAINEY 345 126561 8E DUM Open 126408 RAINEYSE 138 126561 8E DUM Open 126408 RAINEYSE 138 126578 RMY 12677 RMT0474 7 Remove unit 1 from bus 126736 RMY 2EGT 13.6 SB: RAIN 345 1E Open 126295 RAINEY 345 126641 MOTT HAVEN Open 126295 RAINEY 345 126561 8E DUM Open 126606 8E DUM 138 126677 RMY0T4-7 Remove unit 1 from bus 126736 RMY 2EGT 13.6 SB: W 49 345 5 Open 126298 SPRAINEROOK 345 126518 REACM52 Open 126375 W49 XI DUM 138 126537 RMAY XI T Open 126375 W49 XI DUM 138 126543 W49 XI T Open 126375 W49 XI DUM 138 126518 REACM52 Open 126304 W 49 ST 345 126518 REACM52 Open 1263075 W49 XI DUM 138 126376 W49 XI T Open 126375 W49 XI DUM 138 126376 W49 XI DUM Open 126375 W49 XI DUM 138 126376 W49 XI T Open 126375 W49 XI DUM 138 126376 W49 XI T Open 126375 W49 XI DUM 138 126376 W49 XI T Open 126375 W49 XI DUM 138 126376 W49 XI T Open 126375 W49 XI DUM 138 126376 W49 XI T Open 126375 W49 XI DUM 138 126376 W49 XI T Open 126375 W49 XI DUM 138 126376 W49 XI T Open 126375 W49 XI DUM 138 126376 W49 XI T Open 126375 W49 XI DUM 138 126376 W49 XI T Open 126375 W49 XI DUM 138 126376 W49 XI T Open 126375 W49 XI DUM 138 126376 W49 XI T Open 126375 W49 XI DUM 138 126376 W49 XI T Open 126375 W49 XI DUM 138 126376 W49 XI T Open 126375 W49 XI DUM 138 126376 W49 XI DUM
		439.6 441.1 444.6 447.9	598.3 599.7 599.7 603.2	598.2 599.6 603.1	1429.1 1429.1 1432.6	*	126481 RAINEY8W  126481 RAINEY8W  126480 RAINEY8E	138	126562 8W DUM  126507 VERNON-W  126561 8E DUM  126506 VERNON-E	1 3	0.28943	-244.8 244.3 -233.1	372.0 372.0 342.0	Remove unit 1   from bus 126302 NARRGTIA   13.4
		439.6 441.1 444.6 447.9	598.3 599.7 599.7 603.2	598.2 599.6 603.1	1429.1 1429.1 1432.6	*	126481 RAINEY8W  126481 RAINEY8W  126480 RAINEY8E	138	126562 8W DUM  126507 VERNON-W  126561 8E DUM  126506 VERNON-E	1 3	0.28943	-244.8 244.3 -233.1	372.0 372.0 342.0	Remove unit 1 from bus 126302 NARRGTIA 13.6 Remove unit 1 from bus 126303 NARRGTIB 13.6 Base Case SB: RAIN 345 1E Open 126295 RAINEY 345 126641 MOTT HAVEN Open 126295 RAINEY 345 126561 8E DOW Open 126616 8E DOW 138 126561 8E DOW Open 126616 8E DOW 138 126677 RNYGT4-7 Remove unit 1 from bus 126736 RNY 2EGT 13.6 SB: RAIN 345 1E Open 126295 RAINEY 345 126641 MOTT HAVEN Open 126295 RAINEY 345 126641 MOTT HAVEN Open 126295 RAINEY 345 126671 RNYGT4-7 Remove unit 1 from bus 126736 RNY 2EGT 13.6 SB: RAIN 345 1E Open 126295 RAINEY 345 126561 8E DOW Open 126480 RAINEYBE 138 126571 RNYGT4-7 Remove unit 1 from bus 126736 RNY 2EGT 13.6 SB: RAINEYBE 138 126561 RE DOW Open 126304 W 49 ST 345 126518 REACMS2 Open 126375 W49 XI DOW 138 126537 RAY XI DOW Open 126375 W49 XI DOW 138 126537 RAY XI DOW Open 126375 W49 XI DOW 138 126537 W49 XI DOW Open 126375 W49 XI DOW 138 126537 W49 XI DOW Open 126375 W49 XI DOW 138 126518 REACMS2 Open 126304 W 49 ST 345 126518 REACMS2 Open 126304 W 49 ST 345 126518 REACMS2 Open 126375 W49 XI DOW 138 126537 W49 XI DOW Open 126375 W49 XI DOW 138 126537 W49 XI DOW Open 126375 W49 XI DOW 138 126518 REACMS2 Open 126304 W 49 ST 345 126518 REACMS2 Open 126375 W49 XI DOW 138 126543 W49 XI DOW Open 126375 W49 XI DOW 138 126548 W49 XI T Open 126375 W49 XI DOW 138 126548 W49 XI T Open 126375 W49 XI DOW 138 126548 W49 XI T Open 126375 W49 XI DOW 138 126548 W49 XI T Open 126375 W49 XI DOW 138 126548 W49 XI T Open 126395 W49 XI DOW 138 126548 W49 XI T Open 126395 W49 XI DOW 138 126548 W49 XI T Open 126395 W49 XI DOW 138 126548 W49 XI T Open 126395 RAINEY 345 126518 REACMS2 Open 126395 W49 XI DOW 138 126548 W49 XI T Open 126395 RAINEY 345 126518 REACMS2 Open 126395 RAINEY 345 126568 RAV3 60L Open 126652 RAV3 3 22.0 126866 RAV3 60L
		439.6 441.1 444.6 447.9	598.3 599.7 599.7 603.2	598.2 599.6 603.1	1429.1 1429.1 1432.6	*	126481 RAINEY8W  126481 RAINEY8W  126480 RAINEY8E	138	126562 8W DUM  126507 VERNON-W  126561 8E DUM  126506 VERNON-E	1 3	0.28943	-244.8 244.3 -233.1	372.0 372.0 342.0	Remove unit 1   from bus 126302 NARRGTIA   13.6
		439.6 441.1 444.6 447.9	598.3 599.7 599.7 603.2	598.2 599.6 603.1	1429.1 1429.1 1432.6	*	126481 RAINEY8W  126481 RAINEY8W  126480 RAINEY8E	138	126562 8W DUM  126507 VERNON-W  126561 8E DUM  126506 VERNON-E	1 3	0.28943	-244.8 244.3 -233.1	372.0 372.0 342.0	Remove unit 1 from bus 126302 NARRGTIA 13.6 Remove unit 1 from bus 126303 NARRGTIA 13.6 Remove unit 1 from bus 126303 NARRGTIB 13.6 Base Case SB: RAIN 345 1E Open 126295 RAINEY 345 126561 8E DUM Open 126295 RAINEY 345 126561 8E DUM Open 126616 8E DUM 138 126677 RNYGT4-7 Remove unit 1 from bus 126736 RNY 2EGT 13.6 SB: RAIN 345 1E Open 126295 RAINEY 345 126561 8E DUM Open 126295 RAINEY 345 126671 RNYGT4-7 Remove unit 1 from bus 126736 RNY 2EGT 13.6 SB: RAIN 345 1E Open 126295 RAINEY 345 126561 8E DUM Open 126304 PAINEY8E 138 126561 8E DUM Open 126304 PAINEY8E 138 126561 RE DUM Open 126304 PAINEY8E 138 126561 RE RACMS2 Open 126375 W49 XI DUM 138 126518 REACMS2 Open 126375 W49 XI DUM 138 126518 REACMS2 Open 126375 W49 XI DUM 138 126376 W49 XI DUM SB: W 49 345 5 Open 126375 W49 XI DUM 138 126376 W49 XI DUM SB: W 49 345 5 Open 126375 W49 XI DUM 138 126376 W49 XI DUM SB: W 49 345 5 Open 126375 W49 XI DUM 138 126376 W49 XI DUM SB: W 49 345 5 Open 126375 W49 XI DUM 138 126376 W49 XI DUM SB: W 49 345 5 Open 126375 W49 XI DUM 138 126376 W49 XI DUM SB: W 49 345 5 Open 126375 W49 XI DUM 138 126376 W49 XI DUM SB: RAIN 345 IW Open 126394 W 49 ST 345 126518 REACMS2 Open 126395 RAINEY 345 126518 REACMS2 Open 126395 RAINEY 345 126586 RAV3 60L Open 126622 RAV 3 22.0 126866 RAV3 60L Open 126625 RAINEY 345 126552 8W DUM Open 126641 RAINEY8W 138 126552 8W DUM
		439.6 441.1 444.6 447.9	598.3 599.7 599.7 603.2	598.2 599.6 603.1	1429.1 1429.1 1432.6	*	126481 RAINEY8W  126481 RAINEY8W  126480 RAINEY8E	138	126562 8W DUM  126507 VERNON-W  126561 8E DUM  126506 VERNON-E	1 3	0.28943	-244.8 244.3 -233.1	372.0 372.0 342.0	Remove unit 1   from bus 126302 NARRGTIA   13.6
		439.6 441.1 444.6 447.9	598.3 599.7 599.7 603.2	598.2 599.6 603.1	1429.1 1429.1 1432.6	*	126481 RAINEY8W  126481 RAINEY8W  126480 RAINEY8E	138	126562 8W DUM  126507 VERNON-W  126561 8E DUM  126506 VERNON-E	1 3	0.28943	-244.8 244.3 -233.1	372.0 372.0 342.0	Remove unit 1 from bus 126302 NARRGTIA 13.6 Remove unit 1 from bus 126303 NARRGTIA 13.6 Remove unit 1 from bus 126303 NARRGTIB 13.6 Base Case SB: RAIN 345 1E Open 126295 RAINEY 345 126561 8E DUM Open 126295 RAINEY 345 126561 8E DUM Open 126616 8E DUM 138 126677 RNYGT4-7 Remove unit 1 from bus 126736 RNY 2EGT 13.6 SB: RAIN 345 1E Open 126295 RAINEY 345 126561 8E DUM Open 126295 RAINEY 345 126671 RNYGT4-7 Remove unit 1 from bus 126736 RNY 2EGT 13.6 SB: RAIN 345 1E Open 126295 RAINEY 345 126561 8E DUM Open 126304 PAINEY8E 138 126561 8E DUM Open 126304 PAINEY8E 138 126561 RE DUM Open 126304 PAINEY8E 138 126561 RE RACMS2 Open 126375 W49 XI DUM 138 126518 REACMS2 Open 126375 W49 XI DUM 138 126518 REACMS2 Open 126375 W49 XI DUM 138 126376 W49 XI DUM SB: W 49 345 5 Open 126375 W49 XI DUM 138 126376 W49 XI DUM SB: W 49 345 5 Open 126375 W49 XI DUM 138 126376 W49 XI DUM SB: W 49 345 5 Open 126375 W49 XI DUM 138 126376 W49 XI DUM SB: W 49 345 5 Open 126375 W49 XI DUM 138 126376 W49 XI DUM SB: W 49 345 5 Open 126375 W49 XI DUM 138 126376 W49 XI DUM SB: W 49 345 5 Open 126375 W49 XI DUM 138 126376 W49 XI DUM SB: RAIN 345 IW Open 126394 W 49 ST 345 126518 REACMS2 Open 126395 RAINEY 345 126518 REACMS2 Open 126395 RAINEY 345 126586 RAV3 60L Open 126622 RAV 3 22.0 126866 RAV3 60L Open 126625 RAINEY 345 126552 8W DUM Open 126641 RAINEY8W 138 126552 8W DUM
		439.6 441.1 444.6 447.9	598.3 599.7 599.7 603.2	598.2 599.6 603.1	1429.1 1429.1 1432.6	*	126481 RAINEY8W  126481 RAINEY8W  126480 RAINEY8E	138	126562 8W DUM  126507 VERNON-W  126561 8E DUM  126506 VERNON-E	1 3	0.28943	-244.8 244.3 -233.1	372.0 372.0 342.0 342.0	Remove unit 1 from bus 126302 NARRGTIA 13.6 Remove unit 1 from bus 126303 NARRGTIB 13.6 Remove unit 1 from bus 126303 NARRGTIB 13.6 Base Case SB: RAIN 345 1E Open 126295 RAINEY 345 126641 MOTT HAVEN Open 126295 RAINEY 345 126561 8E DOW Open 126408 RAINEYSE 138 126561 8E DOW Open 126561 8E DOW 138 126677 RNYGT4-7 Remove unit 1 from bus 126736 RNY 2EGT 13.6 SB: RAIN 345 1E Open 126295 RAINEY 345 126641 MOTT HAVEN Open 126295 RAINEY 345 126671 RNYGT4-7 Remove unit 1 from bus 126736 RNY 2EGT 13.6 SB: RAIN 345 1E Open 126295 RAINEY 345 126561 8E DOW Open 126400 RAINEYSE 138 126571 RNYGT4-7 Remove unit 1 from bus 126736 RNY 2EGT 13.6 SB: RAIN 345 1C Open 126305 RAINEY 345 126518 REACM52 Open 126307 RNYGT4-7 Remove unit 1 from bus 126736 RNY 2EGT 13.6 SB: W 49 345 5 Open 1263075 W49 XI DOM 138 126376 W49 XI T Open 1263075 W49 XI DOM 138 126376 W49 XI DOM SB: W 49 345 5 Open 1263075 W49 XI DOM 138 126376 W49 XI DOM SB: W 49 345 5 Open 1263075 W49 XI DOM 138 126376 W49 XI DOM SB: W 49 345 5 Open 1263075 W49 XI DOM 138 126376 W49 XI DOM SB: W 49 345 5 Open 1263075 W49 XI DOM 138 126376 W49 XI DOM SB: RAIN 345 IW Open 1263075 W49 XI DOM 138 126376 W49 XI DOM SB: RAIN 345 IW Open 1263075 W49 XI DOM 138 126376 W49 XI DOM SB: RAIN 345 IW Open 1263075 W49 XI DOM 138 126376 W49 XI DOM SB: RAIN 345 IW Open 1263075 W49 XI DOM 138 126376 W49 XI DOM SB: RAIN 345 IW Open 1263075 W49 XI DOM 138 126376 W49 XI DOM SB: RAIN 345 IW Open 1263075 W49 XI DOM 138 126376 W49 XI DOM SB: RAIN 345 IW Open 1263075 W49 XI DOM 138 126376 W49 XI DOM SB: RAIN 345 IW Open 1263075 W49 XI DOM 138 126376 W49 XI DOM SB: RAIN 345 IW Open 1263075 W49 XI DOM 138 126376 W49 XI DOM Open 126481 RAINEYS 345 126526 8W DOM Open 126481 RAINEYS 345 126526 8W DOM Open 126481 RAINEYS 345 126528 WDOM Open 126481 RAINEYS 345 126528 WDOM

# A.2 Capacity Deliverability Capability With Astoria-Rainey 345 kV Cable

PSS(R)MUST 10.2 -- Managing and Utilizing System Transmission -- SUN, OCT 23 2011 17.59 <FCT111.0> 2010 NYISO CLASS YEAR ATRA-D REV 3 2015 SUMMER PEAK LOAD W/ 2009 ERAG/MMWG & PJM RTEP 09 UPDATE

ZOIS SOWNER FRANK DOOR WY 2005 ERRAS/NEWS & FOR WIND OF OFFICE OF THE CASE, FILE C.\TD10305\CY2010 ATRA\_Deliverablity\_rew3\_UDPproxygen\_TDI3\_ASTRAINEY.sav Subsys.File C.\TD10305\Auxiliary files\CY2009\_CY2010\_.sub Monit.File C.\TD10305\Auxiliary files\CY2009\_CY2010\_.mon Contin.File C.\TD10305\Auxiliary files\CY2010\_ATRA\_.con

Exclud.File C:\TDIQ305\Auxiliary files\cy2009-2010contingencies.exc

Pro	vom.	To	Transfer Level	PCITC	EXPORT		Inter	lag.	LE F	- -	LE To		Ckt	TDF	PreShift	Pating	Contingency
TDI03		J EXP TDIA	3000.0	-167.2	-8.5	-8.6	818.8	100		24 Ontario-M		_	OAG	-0.07791			147829 ASTOR345 345 148988 TDI0305 345 1 204
10100	/~/	J_011 _1D17	2000.0	-10772	-0.5	-0.0	010.0	+	Incorrace .	14 OHUMITO-N	I .	$\overline{}$		-0.01722	-15,0	0.0	Open 147829 ASTOR345 345 148988 TDIQ305 345 1
-	$\overline{}$			-165.1	-6.5	-6.6	820.9		Interface	24 Ontario-M	ich	$\overline{}$		-0.07793	-12.9	0.0	SB:AST 345 5 TDIQ305 & Q35M-48 966
	$\rightarrow$			20072			02011	Н				$\rightarrow$		4141111	2275		Open 126275 E13ST 48 345 126277 FARRAGUT 345 1
	$\neg$							П				$\neg$					Open 126275 E13ST 48 345 147829 ASTOR345 345 1
	$\neg$							П				$\neg$					Open 126275 E13ST 48 345 126499 T11MPT 138 11
																	Open 126275 E13ST 48 345 126867 E13 TX10 T 138 10
																	Open 147829 ASTOR345 345 148988 TDIQ305 345 1
				-164.8	-6.2	-6.3	821.2	٠	Interface :	24 Ontario-M	ich			-0.07793	-12.8		SB:AST_345_3 TDIQ305 & Q35L-B47 965
							_	ш				$\overline{}$					Open 126274 E13ST 47 345 126277 FARRAGUT 345 1
_	$\rightarrow$							Н				$\rightarrow$					Open 126274 E13ST 47 345 147829 ASTOR345 345 1
_	$\rightarrow$							Н				$\rightarrow$	_				Open 126274 E13ST 47 345 126869 E13 TX16 T 138 16
$\vdash$	$\rightarrow$					_	_	₩				$\rightarrow$	_				Open 126274 E13ST 47 345 126870 E13 TX17 T 69.0 17
$\vdash$	$\rightarrow$			100.0	0.0	0.0	007.7	+	Teberfore	20 200 W P2	D 7	$\rightarrow$		0.55000	07.5	0.0	Open 147829 ASTOR345 345 148988 TDIQ305 345 1
$\vdash$	$\rightarrow$			-158.3	0.3	0.2	827.7	-	Interface	ZO ABC-JK_PA	K-1	$\rightarrow$	_	0.55332	87.6	0.0	SB:AST 345_5 TDIQ305 & Q35M-48 966 Open 126275 B13ST 48 345 126277 FARRAGUT 345 1
$\vdash$	$\rightarrow$					_	_	₩				$\rightarrow$	_				Open 126275 B13ST 48 345 126277 FARRAGUT 345 1 Open 126275 B13ST 48 345 147829 ASTOR345 345 1
$\vdash$	$\rightarrow$				-	-	_	₩				$\rightarrow$	_		_	-	Open 126275 E13ST 48 345 126499 T11MPT 138 11
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$\vdash$	$\rightarrow$				-	-	_	+				$\overline{}$					Open 147829 ASTOR345 345 148988 TDIQ305 345 1
$\vdash$	$\overline{}$			-158.1	0.5	0.4	827.9		Interface	20 ARC-JK PA	P - T	$\overline{}$		0.55331	87.5	0.0	SB:AST_345_3 TDIQ305 & Q35L-B47 965
$\vdash$	$\rightarrow$			25072			02///	Н	anoone doo	DO MES OR_IN	<u> </u>	$\rightarrow$		4133334	0.115		Open 126274 E13ST 47 345 126277 FARRAGUT 345 1
	$\neg$							Н				$\overline{}$					Open 126274 E13ST 47 345 147829 ASTOR345 345 1
	$\overline{}$							Н				$\overline{}$					Open 126274 E13ST 47 345 126869 E13 TX16 T 138 16
	$\neg$							П				$\neg$					Open 126274 E13ST 47 345 126870 E13 TX17 T 69.0 17
								П									Open 147829 ASTOR345 345 148988 TDIQ305 345 1
				-158.1	0.5	0.4	827.9	*	Interface :	20 ABC-JK_PA	R-I			0.55347	87.5	0.0	147829 ASTOR345 345 148988 TDIQ305 345 1 204
								П									Open 147829 ASTOR345 345 148988 TDIQ305 345 1
				177.9	336.5	336.4			126481 RAINE		126562 8W DUM	138	1	-0.23835	-213.6		Base Case
				179.6	338.2	338.1	1166		126481 RAINE		126507 VERNON-W	138	1	0.23835	213.2		Base Case
	$\rightarrow$			350.5	509.1	509	1337	Ш	126295 RAINE	Y 345	147829 ASTOR345	345	1	-0.87790	-543.3	851.0	126274 E13ST 47 345 147829 ASTOR345 345 1 40
_	$\rightarrow$							ш				$\rightarrow$	_				Open 126274 E13ST 47 345 147829 ASTOR345 345 1
_	$\rightarrow$			353.0	511.7	511.6	1339	╙	126295 RAINE	Y 345	147829 ASTOR345	345	1	-0.87119	-543.4	851.0	126275 E13ST 48 345 147829 ASTOR345 345 1 42
_	$\rightarrow$																Open 126275 E13ST 48 345 147829 ASTOR345 345 1
_	$\rightarrow$			355.8	514.4	514.3	1342	1.	126295 RAINE	Y 345	147829 ASTOR345	345	1	-0.87649	-539.1	851.0	SB:FARR 345 7E 952
$\vdash$	$\rightarrow$					_	_	₩				$\rightarrow$	_				Open 126277 FARRAGUT 345 126590 GOWANUS 41SR 345 1 Open 126286 GOWANUSN 345 126590 GOWANUS 41SR 345 BY
$\vdash$	$\rightarrow$					<del></del>	_	↤				$\overline{}$	_		_	-	Open 126286 GOWANUSN 345 126590 GOWANUS 415X 345 BI
$\vdash$	$\rightarrow$				$\vdash$	-		↤				_	_				Open 126286 GOMANUSN 345 128251 GOMBAYON 345 1
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	$\rightarrow$							$\vdash$				$\rightarrow$					Open 126274 E13ST 47 345 126277 FARRAGUT 345 1
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	$\overline{}$							Н				$\overline{}$					Open 126274 E13ST 47 345 126869 E13 TX16 T 138 16
								$\Box$									Open 126274 E13ST 47 345 126870 E13 TX17 T 69.0 17
				371.2	529.8	529.7	1357		126295 RAINE	Y 345	126562 8W DUM	138	8	0.24516	165.0	256.0	Base Case
				383.5	542.1	542	1370	П	126480 RAINE	Y8E 138	126506 VERNON-E	138	1	0.24484	157.1	251.0	Base Case
				384.3	542.9	542.8			126480 RAINE	Y8E 138	126561 8E DUM	138	1	-0.24484	-157.9		Base Case
				391.7	550.3	550.2	1378		126481 RAINE	Y8W 138	126562 8W DUM	138	1	-0.23835	-278.6	372.0	SB:Greenwood138_4N 962
																	Open 126287 GOWANUSS 345 126429 GOWNUS2T 138 1
																	Open 126428 GOWNUS2R 138 126429 GOWNUS2T 138 1
																	Open 126428 GOWNUS2R 138 126434 GRENWOOD 138 1
								$\Box$									Remove unit 1 from bus 126257 GOWGT1A 13.8 41.0 M9
						-		$\vdash$				_					Remove unit 1 from bus 126259 GOWGT1B 13.8 39.7 MM
_	_							$\Box$				_					Remove unit 1 from bus 126258 GOWGT3A 13.8 42.5 M9
					$\Box$			ш			L						Remove unit 1 from bus 126289 GOWGT3B 13.8 42.9 M

1 Allaly	yolo i te	Jourto														
		l		1	_											Remove unit 1 from bus 128666 Q261SO PIER 13.8 64.0 M
							+				_		1			Remove unit 1 from bus 126308 NARRGT2A 13.8 43.6 N
							$\boldsymbol{\top}$				$\overline{}$					Remove unit 1 from bus 126309 NARRGT2B 13.8 44.3 M
			393.4	552	551.9	1379	1	126481 RAINEY8W	138	126507 VERNON-W	138	1	0.23835	278.2	372.0	
							$\top$									Open 126287 GOWANUSS 345 126429 GOWNUS2T 138 1
							$\top$									Open 126428 GOWNUS2R 138 126429 GOWNUS2T 138 1
							$\top$									Open 126428 GOWNUS2R 138 126434 GRENWOOD 138 1
							$\top$									Remove unit 1 from bus 126257 GOWGT1A 13.8 41.0 M
							П									Remove unit 1 from bus 126259 GOWGT1B 13.8 39.7 M
							П									Remove unit 1 from bus 126258 GOWGT3A 13.8 42.5 M
							П									Remove unit 1 from bus 126289 GOWGT3B 13.8 42.9 M
							П									Remove unit 1 from bus 128666 Q261SO_PIER 13.8 64.0 M
							П									Remove unit 1 from bus 126308 NARRGT2A 13.8 43.6 N
																Remove unit 1 from bus 126309 NARRGT2B 13.8 44.3 M
			393.7	552.4	552.3	1380	) 1	126481 RAINEY8W	138	126562 8W DUM	138	1	-0.23835	-278.2	372.0	
							ш									Open 126426 GOWNUS1R 138 126434 GRENWOOD 138 1
																Open 126426 GOWNUS1R 138 126427 GOWNUS1T 138 1
																Open 126286 GOWANUSN 345 126427 GOWNUSIT 138 1
							$\perp$									Remove unit 1 from bus 126271 GOWGT2A 13.8 44.6 M
							ш									Remove unit 1 from bus 126328 GOWGT2B 13.8 44.3 M
							$\perp \Gamma$									Remove unit 1 from bus 126276 GOWGT4A 13.8 40.0 M
<u> </u>							$\vdash$									Remove unit 1 from bus 126329 GOWGT4B 13.8 41.5 M
							$\vdash$									Remove unit 1 from bus 147811 PAGTGOW1 13.8 26.4 M
							$\perp$									Remove unit 2 from bus 147812 PAGTGOW2 13.8 26.8 M
							$\vdash$						ļ			Remove unit 1 from bus 126302 NARRGT1A 13.8 47.1 M
$\vdash$							+		40.5						4.5	Remove unit 1 from bus 126303 NARRGT1B 13.8 44.8 M
			395.4	554.1	554	1381	1 1	126481 RAINEY8W	138	126507 VERNON-W	138	1	0.23835	277.7	372.0	
$\vdash$							$\vdash$									Open 126426 GOWNUS1R 138 126434 GRENWOOD 138 1
							$\vdash$									Open 126426 GOWNUS1R 138 126427 GOWNUS1T 138 1
							$\vdash$									Open 126286 GOWANUSN 345 126427 GOWNUSIT 138 1
							+				$\longrightarrow$					Remove unit 1 from bus 126271 GOWGTZA 13.8 44.6 M
							$\vdash$									Remove unit 1 from bus 126328 GOWGT2B 13.8 44.3 M
							$\perp$									Remove unit 1 from bus 126276 GOWGT4A 13.8 40.0 M
							$\perp$									Remove unit 1 from bus 126329 GOWGT4B 13.8 41.5 M
							$\vdash$									Remove unit 1 from bus 147811 PAGTGOW1 13.8 26.4 M
							$\vdash$				$\longrightarrow$					Remove unit 2 from bus 147812 PAGTGOW2 13.8 26.8 M
							$\vdash$									Remove unit 1 from bus 126302 NARRGT1A 13.8 47.1 M
							Н.									Remove unit 1 from bus 126303 NARRGT1B 13.8 44.8 M
			441.0	599.6	599.5	1427	1 * 1	126481 RAINEY8W	138	126562 8W DUM	138	1	-0.28910	-244.5	372.0	SB: RAIN_345_1E 676
$\vdash$						_	+				$\overline{}$					Open 126295 RAINEY 345 126641 MOTT HAVEN 345 3
							+				-					Open 126295 RAINEY 345 126561 8E DUM 138 8 Open 126480 RAINEY8E 138 126561 8E DUM 138 1
$\vdash$							+									
_							+									Open 126561 8E DUM 138 126677 RNYGT4-7 13.8 1 Remove unit 1 from bus 126736 RNY 2EGT 13.0 42.7 N
$\vdash$			442.4	C01	600.9	1400		10C401 DRINITEON	120	126507 VERNON-W	120	-1	0.20010	244.1	272.0	
			442.4	601	600.9	1420	'l' l'	126481 RAINEY8W	130	126507 VERNON-W	138	1	0.28910	244.1	372.0	
					_		+				$\overline{}$					
							+									Open 126295 RAINEY 345 126561 8E DUM 138 8 Open 126480 RAINEY8E 138 126561 8E DUM 138 1
							+									Open 126561 8E DUM 138 126677 RNYGT4-7 13.8 1
$\vdash$				-	$\vdash$	<del></del>	+				-		$\vdash$			Remove unit 1 from bus 126736 RNY 2EGT 13.0 42.7 M
$\vdash$			446.1	604 0	604.7	1422	,	126480 RAINEYSE	13.0	126561 8E DUM	138	1	-0.24487	-232.8	342.0	SB:W 49 345 5 721
$\vdash$			440,1	004.0	004.7	1432	11	TOTON KMINDIOD	170	120301 0E DOM	120	1	3,24407	-232.0	342.0	Open 126298 SPRAINBROOK 345 126518 REACM52 345 SR
$\vdash$						_	+				-		<del>                                     </del>			Open 126304 W 49 ST 345 126518 REACM52 345 SR
$\vdash$			<b>-</b>		<b>—</b>	<b>—</b>	+				-					Open 126375 W49 X1 DUM 138 126543 W49 ST 1 138 1
$\vdash$							+				-		$\vdash$			Open 126375 W49 X1 DUM 138 126376 W49 X1 T 13.8 1
$\vdash$						_	+									Open 126304 W 49 ST 345 126375 W49 X1 DUM 138 1
$\vdash$	<b>—</b>		449.4	608	607.9	1435	1 1	126480 RAINEYSE	13.0	126506 VERNON-E	138	- 1	0.24487	232.0	342.0	
$\vdash$			449,4	608	007.9	1435	+	ADJUNIAN VORUL	130	120300 VERNON-E	126	1	V.2440/	232.0	J-142.U	Open 126298 SPRAINBROOK 345 126518 REACM52 345 SR
$\vdash$				<b>-</b>	_	<b>—</b>	+				_					Open 126304 W 49 ST 345 126518 REACM52 345 SK
$\vdash$							+				-		$\vdash$			Open 126375 W49 X1 DUM 138 126543 W49 ST 1 138 1
$\vdash$			<del>                                     </del>		-	<del>                                     </del>	+						$\vdash$			Open 126375 W49 X1 DUM 138 126543 W49 X1 T 13.8 1
$\vdash \vdash$	<b>—</b>					_	++									Open 126304 W 49 ST 345 126375 W49 X1 DUM 138 1
$\vdash$			457.1	615.7	615.7	1443	<del>.    </del> -	126480 RAINEY8E	13.0	126561 8E DUM	138	- 1	-0.29888	-205.4	342.0	SB:RAIN 345 1W 671
$\vdash$			43/,1	013.7	V.3./	1443	T	TOTAL VUINDIOD	130	THOUSE OF DOM	120	1	V. 47000	-200,4	J#4.0	Open 126295 RAINEY 345 126866 RAV3 60L 345 1
$\vdash$	H			<b>—</b>	_	$\vdash$	+				$\overline{}$		$\vdash$			Open 126652 RAV 3 22.0 126866 RAV3 60L 345 1
					-	<del>                                     </del>	+									Open 126052 RAV 3 22.0 126066 RAV 3 60L 345 1 Open 126295 RAINEY 345 126562 8W DUM 138 8
			<del>                                     </del>		<del>                                     </del>	<b>—</b>	+									Open 126481 RAINEY 345 126562 8W DOM 138 8
				<b>-</b>	_	<b>—</b>	+				_					Open 126562 8W DOM 138 126678 RYYGT811 13.8 1
			ı		1		+				-					Open 126481 RAINEY8W 138 126507 VERNON-W 138 1
											-					Topon 120401 ARINDION IDO 120001 VERNON-N IDO I
							+						1			Pemove unit 1 from bus 126678 DVVCT811 13 8 40 6 N
			450 2	617 9	617.8	1445	* 1	126480 PAINEYSE	138	126561 8E DUM	13.8	1	-0.29898	-204 7	342.0	Remove unit 1 from bus 126678 RYYGT811 13.8 48.6 M
			459.3	617.9	617.8	1445	* 1	126480 RAINEYSE	138	126561 8E DUM	138	1	-0.29898	-204.7	342.0	SB:RAIN_345_9W 675
			459.3	617.9	617.8	1445	* 1	126480 RAINEYSE	138	126561 8E DUM	138	1	-0.29898	-204.7	342.0	SB.RAIN 345 9W 675 Open 126295 RAINEY 345 126563 9E DUM 138 1
			459.3	617.9	617.8	1445	5 * 1	126480 RAINEYSE	138	126561 8E DUM	138	1	-0.29898	-204.7	342.0	SB:RAIN_345_9W 675 Open 126295 RAINEY 345 126563 9E DUM 138 1 Open 126482 RAINEY9E 138 126563 9E DUM 138 1
			459.3	617.9	617.8	1445	* 1	126480 RAINEYSE	138	126561 8E DUM	138	1	-0.29898	-204.7	342.0	SB:RAIN_345_9W   675   Open 126295 RAINEY
			459.3	617.9	617.8	1445	* 1	126480 RAINEY8E	138	126561 8E DUM	138	1	-0.29898	-204.7	342.0	SB:RAIN_345_9W 675 Open 126295 RAINEY 345 126563 9E DUM 138 1 Open 126482 RAINEY9E 138 126563 9E DUM 138 1

<b>A.3</b>	Capacity	/ Delivery	Capability a	t W49th	<b>Street</b>
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-- Managing and Utilizing System Transmission -- SUN, OCT 23 2011 17:33 <FCT111.0> 2010 NYISO CLASS YEAR ATRA-D REV 3 2015 SUMMER PEAK LOAD M/ 2009 ERAG/MONG & DJM RTEP 09 UPDATE

Case.File C:\TDIQ305\CY2010\_ATRA\_Deliverablity\_rev8\_UDRproxygen\_TDIQ305\_N49ST.sav

Subsys.File C:\TDIQ305\Auxiliary files\CY2009\_CY2010\_.sub

Nonit.File C:\TDIQ305\Auxiliary files\CY2009\_CY2010\_.mon

Contin.File C:\TDIQ305\Auxiliary files\CY2009\_CY2010\_ATRA\_.con

Exclud.File C:\TDIQ305\Auxiliary files\cy2009-2010contingencies.exc

Interface-1 Interface 64 TDIQ3W49 Init.Flow= 158.54 TDF= 1.0000 Interface-2 Interface 65 AST345 Interface-3 Interface 66 W49345 Init.Flow= 827.48 TDF=-0.1106 Init.Flow= 158.54 TDF= 1.0000

TOTQJOS JERF TOT 3000.0 -1671 -8.5 -8.6 -8.6 -8.6   Interface 24 OUNSITE OFFICE - 0.0 -0.0   1.0 -0.0   0.0   1.0 -0.0   0.0   1.0 -0.0   1.0   0.0   1.0   0.0   1.0   0.0   1.0   0.0   1.0   0.0   0.0   1.0   0.0   0.0   1.0   0.0   1.0   0.0   1.0   0.0   0.0   1.0   0.0   0.0   1.0   0.0			Transfer			face-	face-		Lag					Preshi		
1.55.5   0.1   0.1   640   0.1   Interface 20 ABC-DE PAR-1   0.55227   87.5   0.11050N H 49 ET 345 14898 TRICOST 345 1   91   1.55.5   0.1   0.1   640   0.1   Interface 20 ABC-DE PAR-1   0.55227   87.5   0.11050N H 49 ET 345 14898 TRICOST 345 1   91   1.55.5   0.1   1.55.6   0.2   0.1   640   0.1   Interface 20 ABC-DE PAR-1   0.12247   15.9   0.50000   0.5000   0.50000   0.5000   0.5000   0.50000   0.50000   0.50000   0.50000   0.50000	From	To	Level	FCITC	EXPORT	1	2	3	124	LE From		CKt	TDF	ft	Rating	Contingency
-156.5 0.1 0.1 0.1 0.5 0.1 Interface 20 MSC-NF PAR-1	TDI Q3 0 S	J_EXP_TDI	3000.0	-167.1	-8.5	-8.6	846	-8.6	ш	Interface 24 Ontar	io-Mich		-0.07803	-13.0	0.0	
1.15.4   0.2   0.1   845   0.1   Interface 20 ABC-UK [MR-1]   0.1247   19.4   0.4898 T010105   345 14999 T01010T0   16.5 1   481   19.5   19									ш							
-158.4 0.2 0.1 845 0.1 Riserface 20 ABC-NE PARI 0.12247 37.4 0.0 Risespa TDIGGOS 345 148991 TDIGGOCTS 16.5 1 481 0.158.4 0.2 0.1 845 0.1 Riserface 20 ABC-NE PARI 0.12247 1.4 0.0 Risespa TDIGGOS 345 148990 TDIGGOCTS 16.5 1 481 0.158.4 0.2 0.1 845 0.2 0.1 845 0.1 Riserface 20 ABC-NE PARI 1.1 0.12247 1.4 0.0 Risespa TDIGGOS 345 148990 TDIGGOCTS 16.5 1 481 0.108.4 0.1 Riserface 20 ABC-NE PARI 1.1 0.12247 1.4 0.0 Risespa TDIGGOS 345 148990 TDIGGOCTS 16.5 1 481 0.1 Riserface 20 ABC-NE PARI 1.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1				-158.5	0.1	0.1	845	0.1	Н	Interface 20 ABC-J	K_PAR-I		0.55223	87.5	0.0	
-18.4 0.2 0.1 845 0.1 Pinterface 20 ABC-UK PAR-1 0.12237 1s.4 0.0 (14898 TDIQIOS 345 148990 TDIQIOCTS 16.5 1 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1									Н							
158.4 0.2 0.1 445 0.1 Interface 20 ABC-NF PAR-1 0.1249 19.4 0.014988 TDIQIDS 345 148990 TDIQIDCT2 16.5 1 481 19.9 Common Part 10.5 1 19.9 2 357.8 357.7 605.4 357.7 126451 BAINEYEN 1225567 1 0.2119 21.3 6 256.0 Bare Case 200.1 19.8 8397 TO 200.5 19.9 19.0 19.0 19.0 19.0 19.0 19.0 19.0				-158.4	0.2	0.1	845	0.1	Н	Interface 20 ABC-J	K_PAR-I	_	0.12247	19.4	0.0	
199 2 357.8 357.7 805.4 357.7 12461 PAINEYEN 123563 1 -0.21198 213.6 OBER 148 098 TUIQUOCT 16.5 1 201.1 359.8 357.7 805.4 357.7 12461 PAINEYEN 123563 1 -0.21198 213.6 OBER CARE 410.5 757.1 557.5 13.5 13.4 573 12461 PAINEYEN 123565 1 0.21198 213.6 OBER CARE 410.7 589.3 689.7 775.5 689.3 134460 PAINEYEN 123565 1 0.21198 123.6 OBER CARE 410.4 559.2 590.1 779.5 580.3 134460 PAINEYEN 123565 1 0.21179 1250.									Н			_				
199.2 357.8 359.7 395.4 397.7 124481 RAINEYEN 1126562 1 -0.21108 213.0 256.0 Base Case  201.1 359.8 359.7 396.2 355.7 12648 RAINEYEN 1126565 1 -0.21108 213.4 256.0 Base Case  410.5 575.1 577 781.4 577 781.6 559.1 124485 RAINEYEN 1126565 1 -0.21108 277.2 211.0 Base Case  421.6 50.2 550.1 777.7 500.1 124480 RAINEYEN 1126561 1 -0.21775 157.2 211.0 Base Case  421.6 50.2 550.1 777.7 500.1 124480 RAINEYEN 1126561 1 -0.21775 157.2 211.0 Base Case  440.4 599.1 559 776.6 559 124481 RAINEYEN 1126562 1 -0.2175 157.2 151.0 Base Case  440.4 599.1 559 776.6 559 124481 RAINEYEN 1126562 1 -0.2175 157.2 151.0 Base Case  440.4 599.1 559 776.6 559 124481 RAINEYEN 1126562 1 -0.2175 157.2 151.0 Base Case  440.4 599.1 559 776.6 559 124481 RAINEYEN 1126562 1 -0.2175 157.2 158.0 158.0 Base Case  440.4 599.1 559 776.6 559 124481 RAINEYEN 1126562 1 -0.2175 157.2 158.0 158.0 Base Case  440.4 599.1 559 776.6 559 124481 RAINEYEN 1126562 1 -0.2175 157.2 158.0 158.0 Base Case  440.4 599.1 559 776.6 559 124481 RAINEYEN 1126562 1 -0.2175 157.2 158.0 158.0 Base Case  440.4 599.1 559 776.6 559 124481 RAINEYEN 1126562 1 -0.2175 157.2 158.0 158.0 Base Case  440.4 599.1 559 776.6 559 124481 RAINEYEN 1126562 1 -0.2175 157.0 Base Case  440.4 599.1 559 776.6 559 124481 RAINEYEN 1126562 1 -0.2175 157.0 Base Case  440.4 599.1 559 776.6 559 124481 RAINEYEN 1126562 1 -0.2175 157.0 Base Case  440.4 599.1 559 776.6 559 124481 RAINEYEN 1126562 1 -0.2175 157.0 Base Case  440.4 599.1 559 776.6 559 124481 RAINEYEN 1126562 1 -0.2175 157.0 Base Case  440.4 599.1 559 776.6 559 124481 RAINEYEN 1126562 1 -0.2175 157.0 Base Case  440.4 599.1 559 776.6 559 124481 RAINEYEN 1126562 1 -0.2175 157.0 Base Case  440.4 599.1 559 776.6 559 124481 RAINEYEN 1126562 1 -0.2175 157.0 Base Case  440.4 599.1 559 776.6 559 127.0 Base Case  440.4 599.1 559 776.6 559 1276 124481 RAINEYEN 1126562 1 -0.2175 157.0 Base Case  440.4 599.1 559 776.0 Base Case  4				-158.4	0.2	0.1	845	0.1	*	Interface 20 ABC-J	K PAR-I		0.12247	19.4	0.0	
201.1 399.8 399.7 805.2 395.7 126481 RAINEYWN 2126507 3 0.21109 233.4 286.0 Base Case  430.7 589.3 589.2 778.8 589.2 126480 RAINEYWN 2126506 1 0.21775 137.2 251.0 Base Case  430.6 590.2 590.1 779.7 500.1 126480 RAINEYWN 2126507 1 0.21198 127.0 251.0 Base Case  440.4 599.1 599 778.8 599 126481 RAINEYWN 1126507 1 0.21198 278.6 372.0 GB Greenwood118.8 500.2 590.1 126480 RAINEYWN 1126507 1 0.21198 278.6 372.0 GB Greenwood118.8 500.2 590.1 126480 RAINEYWN 1126507 1 0.21198 278.6 372.0 GB Greenwood118.8 500.2 590.1 126480 RAINEYWN 1126507 1 0.21198 278.6 372.0 GB Greenwood118.8 500.2 590									Н			_				
416.5 575.1 577 78.1 45 575 126295 FAILEY 312656 8 0.21804 165.2 256.0 Base Case  410.6 590.2 590.1 779.7 580.2 126408 FAILEY E 1126502 1 -0.21775 150.0 252.0 Base Case  410.6 590.2 590.1 779.7 580.1 126408 FAILEY E 1126502 1 -0.21795 -150.0 252.0 Base Case  440.4 599.1 599 778.6 599 126408 FAILEY E 1126502 1 -0.21196 -277.6 372.0 593.0 Base Case  440.4 599.1 599 778.6 599 126408 FAILEY E 1126502 1 -0.21196 -277.6 372.0 593.0 Base Case  450.4 590.1 599 778.6 599 126408 FAILEY E 1126502 1 -0.21196 -277.6 372.0 593.0 Base Case  450.4 599.1 599 778.6 599 126408 FAILEY E 1126502 1 -0.21196 -277.6 372.0 593.0 Base Case  450.4 599.1 599 778.6 599 126408 FAILEY E 1126502 1 -0.21196 -277.6 372.0 593.0 Base Case  450.4 599.1 599 778.6 599 126408 FAILEY E 1126502 1 -0.21196 -277.6 372.0 593.0 Base Case  450.4 599.1 599 778.6 599 126408 FAILEY E 1126502 1 -0.21196 -277.6 372.0 Base Case  450.4 599.1 599 778.6 599 126408 FAILEY E 1126502 1 -0.21196 -277.6 372.0 Base Case  450.4 599.1 599 778.6 599 126408 FAILEY E 1126502 1 -0.21196 -277.6 372.0 Base Case  450.4 599.1 599 778.6 599 126408 FAILEY E 1126502 1 -0.21196 -277.6 372.0 Base Case  450.4 599.1 599 778.6 599 126408 FAILEY E 1126502 1 -0.21196 -277.6 372.0 Base Case  450.4 599.1 599 778.6 599 126408 FAILEY E 1126502 1 -0.21196 -277.6 372.0 Base Case  450.4 599.1 599 778.6 599 126408 FAILEY E 1126502 1 -0.21196 -277.6 372.0 Base Case  450.4 599.1 599 778.6 599 126408 FAILEY E 1126502 1 -0.21196 -277.6 372.0 Base Case  450.4 599.1 599												1				
410.7 589.1 589.2 779.8 589.2 124480 RAINEYER 112550 1 0.21775 157.2 251.0 Base Case  410.6 590.2 590.1 779.7 590.1 124480 RAINEYER 112550 1 1.0.21775 15.0 252.0 Base Case  440.4 599.1 599 778.6 599 1 22481 RAINEYER 112550 1 1.0.21795 2.778.6 279.0 Base Case  440.4 599.1 599 778.6 599 1 22481 RAINEYER 112550 1 1.0.21795 2.778.0 279.0 Base Case  90.0 1440.4 599.1 599 778.6 599 1 22481 RAINEYER 112550 1 1.0.21795 2.778.0 279.0 Base Case  90.0 1440.4 599.1 599 778.6 599 1 22481 RAINEYER 112550 1 1.0.21795 2.778.0 279.0 Base Case  90.0 1440.4 599.1 599 778.6 599 1 22481 RAINEYER 112550 1 1.0.21795 2.778.0 279.0 Base Case  90.0 1440.4 599.1 599 778.6 599 1 22481 RAINEYER 112550 1 1.0.21795 2.778.0 279.0 Base Case  90.0 1440.4 599.1 599 778.5 690.9 1 22481 RAINEYER 112550 1 1.0.21795 2.778.0 279.0 Base Case  90.0 1440.4 599.1 599 778.5 690.9 1 22481 RAINEYER 112550 1 1.0.21795 2.778.0 279.0 Base Case  90.0 1440.4 599.1 599 778.5 690.9 1 22481 RAINEYER 112550 1 1.0.21795 2.778.0 279.0 Base Case  90.0 1440.4 599.1 599 778.5 690.9 1 22481 RAINEYER 112550 1 1.0.21795 2.778.0 279.0 Base Case  90.0 1440.4 599.1 599 778.0												1				0.000
621.6   599.2   599.1   779.7   590.1   126400 RAINEYDE   126562   1 -0.21795   -776.0   372.0   98.0   Centerocolils 4N   -0.21795   -776.0   372.0   98.0   -776.												8				
440.4   599.1   599   778.8   599   126401 RAINEYBM   126562   1 -0.21190   -278.6   372.0   591.07eenmoodil3.4   18   16429   504807871   136   18   16429   504807871   136   18   16429   504807871   138   14299   504807871   138   14299   504807871   138   14299   504807871   138   14299   504807871   138   14299   504807871   138   14299   504807871   138   14299   504807871   138   14299   504807871   138   14299   504807871   138   14299   504807871   138   14299   504807871   138   14299   504807871   138   14299   504807871   138   14299   504807871   138   14299   504807871   138   14299   504807871   138   14299   504807871   138   14299   504807871   138   14299   504807871   138   14299   504807871						_		_	_		_	1				
Open 176237 GOMNNISS 145 126429 GOMNNIST 136 1   Open 176428 GOMNNISS 139 126439 GOMNNIST 136 1   Open 176428 GOMNNISS 139 126431 GOMNNISS 136 136 149 GOMNNISS 136 136 149 GOMNNISS 136 136 141 0   Open 176428 GOMNNISS 139 126431 GOMNNISS 136 141 0   Resove unit 1 from bus 126359 GOMNIS 13 1 44 1.0 9   Resove unit 1 from bus 126359 GOMNIS 13 1 42 1.0 9   Resove unit 1 from bus 126359 GOMNIS 13 1 42 1.0 9   Resove unit 1 from bus 126359 GOMNIS 13 1 42 1.0 9   Resove unit 1 from bus 126369 GOMNIS 13 1 42 1.0 9   Resove unit 1 from bus 126369 GOMNIS 13 1 44 1.0 9   Resove unit 1 from bus 126369 GOMNIS 13 1 44 1.0 9   Resove unit 1 from bus 126369 GOMNIS 13 1 44 1.0 9   Resove unit 1 from bus 126369 GOMNIS 13 1 44 1.0 9   Resove unit 1 from bus 126369 GOMNIS 13 1 44 1.0 9   Resove unit 1 from bus 126369 GOMNIS 13 1 44 1.0 9   Open 126428 GOMNNIS 13 1 126429 GOMNNIS 13 1 10 1   Open 126428 GOMNNIS 13 1 126429 GOMNNIS 13 1 1 10 1   Open 126428 GOMNIS 13 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1						_	_		_		_	1				
Open 126428 GOMNUSER 138 126447 GOMNUSER 138 126449 GOMNUSER 138 12649 G				440.4	599.1	599	778.8	599	Н	126481 KAINEYSW	1126562	1	-0.21198	-278.6	372.0	
Qen 126429 COMENSIZE 138 126434 GERNOOD 138 4 41.9						_		_	Н		-					
									Н		-					
						_		_	Н		-	-				
Remove unit 1 from bus 126259 GOMETIA 13.6 42.5									Н		-	_				
Semove unit 1 from bus 126289 GOMSTIS 13.8 42.9								_	Н		-					
Remove unit 1 from bus 120666 QOSISO PIRR 13.8 64.0 Paced with 1 from bus 120608 NARBOTAR 13.8 44.0 Paced with 1 from bus 120608 NARBOTAR 13.8 44.3 Paced with 1 from bus 120609 NARBOTAR 13.8 44.3 Paced with 1 from bus 120609 NARBOTAR 13.8 44.3 Paced with 1 from bus 120609 NARBOTAR 13.8 44.3 Paced with 1 from bus 120609 NARBOTAR 13.8 44.3 Paced with 1 from bus 120609 NARBOTAR 13.8 44.3 Paced with 1 from bus 120609 NARBOTAR 13.8 44.0 Paced with 1 from bus 1206						_		_	Н		-					
Remove unit 1 from bus 126308 NARROTZA 12.8 43.69  442.4 601 600.9 778.5 600.9 126481 RAINEYBW 1126507 1 0.21198 278.2 372.0 SBI-Greenmood218 4N  961 600.9 778.5 600.9 126481 RAINEYBW 1126507 1 0.21198 278.2 372.0 SBI-Greenmood218 4N  962 126482 GCMNUSSR 138 126429 GCMNUSST 138 126419 GCMNUSST 138 126419 GCMNUSST 138 141.0 9  10						_		_	Н		-					
Remove unit 1 from bus 126309 NARROTZS 13.8 44.3 P.									Н		-					
442.4   601   600.9   776.5   600.9   126481 RAINEYSM   126597   1 0.21198   278.2   372.0									Н		-	_				
Open 126287 GOMANUSS 345 126429 GOMNUSET 138 12									ш		_					
Open 126428 GOMNUSZR 138 126429 COMNUSZR 138 126429 COMNUSZR 138 126429 COMNUSZR 138 126434 GRENNOOD 138 1				442.4	601	600.9	778.5	600.9	Н	126481 RAINEY8W	1126507	1	0.21198	278.2	372.0	
Open 126428 GOMNUSZR 138 126474 GERNMOOD 138 1						_		_	Н		-					
Senove unit 1 from bus 126357 GOMSTIA 13.8 41.0						_		_	Н		-					
Remove unit 1 from bus 126259 GOMGTIB 12.9 39.77									Н		-					
Remove unit 1 from bus 126358 GOMST38   13.8   42.5						_		_	Н		-	_				
Remove unit 1 from bus 126289 COMETED 13.8 42.9 8 Remove unit 1 from bus 126280 REMOVED 11.8 64.0 9 Remove unit 1 from bus 126300 REMOVED 11.8 64.0 9 Remove unit 1 from bus 126300 REMOVED 11.8 64.0 9 Remove unit 1 from bus 126300 REMOVED 13.8 44.0 9 Remove unit 1 from bus 126300 REMOVED 13.8 44.0 9 Remove unit 1 from bus 126300 REMOVED 13.8 44.0 9 Remove unit 1 from bus 126300 REMOVED 13.8 44.0 9 Remove unit 1 from bus 126300 REMOVED 13.8 44.0 9 Remove unit 1 from bus 126300 REMOVED 13.8 44.0 9 Remove unit 1 from bus 126310 REMOVED 13.8 44.0 9 RemoveD 13.0 4.0 9 RemoveD 13.0 4.0 9 RemoveD								_	Н		-					
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							т							Remove unit 1 from bus 126736 RNY 2EGT 13.0 42.7
		496.0	654.6	654.5	772.6	654.5	± 1	26481 RAINEY8W	1 126507	1	0.25738	244.3	372.0	SB:RAIN_345_1E 67
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										8				Open 126562         SW DUM         138 126678         RYYGT811         13.8 1           Open 126481         RAINEYSW         138 126507         VERNON-W         138 1           Remove unit 1         from bus 126678         RYYGT811         13.8         48.6           Base Case

<b>A.4</b>	<b>Existing</b>	<b>System</b>	<b>Energy</b>	<b>Deliverability</b>	/ Capability
<i>,</i> ,, ,		<b>O J O C O I I I I</b>		Don't or albint	, oapasiiit,

PSS(R)MUST 10.2 -- Managing and Utilizing System Transmission -- TUE, NOV 01 2011 10:35 <PCT111.0> 2010 NYISO CLASS YEAR ATRA-D REV 3 2015 SUMMER PEAK LOAD W/ 2009 SRAG/MONG ( PUN REED 09 UDDATE Case.File C:\TDTOGOS\Auxiliary files\cv2009\_CY2010\_sub Monit.File C:\TDTOGOS\Auxiliary files\cv2009-2010contingencies.exc

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1010303	O BAR IDI	1000.0	-303.4	-4.0	-7.5	402.7	-	Incertace	24 OHCHIZO-P	12011	$\overline{}$		-0.07762	-45.5	0.0	Open 147829 ASTOR345 345 148988 TDIQ305
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_		_	-575.1	3.6	٠,	410.1	-	Interface	20 ABC-JK PA	9-Y	$\overline{}$	_	0.55528	319.3	0.0	147829 ASTOR345 345 148988 TDIQ305
			-373.1	3.0	<u> </u>	410.1	-	Incertace	20 ABC-OK PA	W- 1	$\overline{}$		0.33320	347.3	0.0	Open 147829 ASTOR345 345 148988 TDIQ305
			-573.4	5.2	2.7	411.7	-	Interface	20 ABC-JK PA	AR-I	-	-	0.55527	318.4	0.0	3B:AST 345 5 TDIQ305 6 Q35M-48
			51514	5.2		****	-	2110022400	LU ADC OIL_F		-		0.00027	520.1	0.0	Open 126275 E138T 48 345 126277 FARRAGUT
											$\overline{}$					Open 126275 B138T 48 345 147829 ASTOR345
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																Open 126275 B138T 48 345 126867 B13 TX10
																Open 147829 ASTOR345 345 148988 TDIQ305
			-573.3	5.3	2.0	411.0		Interface	20 ABC-JK_PA	AR-I			0.55524	310.3	0.0	8B:A8T_345_3 TDIQ305 & Q35L-B47
																Open 126274 E138T 47 345 126277 FARRAGUT
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		-			_	_	-				$\overline{}$					Open 126274 E138T 47 345 126870 E13 TX17
			-364.1	214.5	212	621	-	126275 E138T	40 245	147829 ASTOR345	345	- 1	-1.00000	-985.1	621.0	Open 147829 ASTOR345 345 148988 TDIQ305 126274 E13ST 47 345 147829 ASTOR345
			-364.1	214.3	0.10	951	-	700013 BT301	10 313	ATTOCY ACTURATE	313		-1.00000	-963.A	0.1.0	Open 126274 B139T 47 345 147829 ASTOR345
			-364.1	214.5	212	621	-	126274 E1337	47 345	147829 ASTOR345	345	- 1	-1.00000	-985.1	621.0	126275 E138T 48 345 147829 ASTOR345
		-					-					_	2.00000			Open 126275 E138T 48 345 147829 ASTOR345
			-364.1	214.5	212	621		126274 E1337	47 345	147829 ASTOR345	345	1	-1.00000	-985.1	621.0	
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			-364.1	214.5	212	621	$\vdash$	126274 E1387	147 345	147829 ASTOR345	345	_ 1	-1.00000	-985.1	621.0	SER:Astoria-E13th-Farragut_Q35M648_345 Open 126275 E138T 48 345 126277 FARRAGUT
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			-364.1	214.5	212	621	-	126274 81387	47 345	147829 ASTOR345	345	1	-1.00000	-985.1	621.0	88: PARR 345 2W
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		$\vdash$	-364.1	214.5	212	621	$\vdash$	126274 E138T	47 345	147829 ASTOR345	345	1	-1.00000	-985.1	621.0	8B: FARR 345 3W
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			-364.1	214.5	212	621		126274 B138T	47 345	147829 ASTOR345	345	1	-1.00000	-985.1	621.0	3B:FARR 345 3W FGT TR6-48-Q35M
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	-364.1	214.5	212	621	126275 E13ST 48 34	5 147829 ASTOR345	345	1 -1.00000	-985.1	621.0	SER: Astoria-E13th-Farragut Q35L&B47 345
											Open 126274 E13ST 47 345 126277 FARRAGUS
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	-364.1	214.5	212	621	126275 E13ST 48 34	5 147829 ASTOR345	345	1 -1.00000	-985.1	621.0	SB:FARR_345_7E
											Open 126277 FARRAGUT 345 126590 GOWANUS
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											Open 126283 GOTHLS N 345 126286 GOWANUSN
											Open 126274 E13ST 47 345 126277 FARRAGUI
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	-364.1	214.5	212	621	126275 E13ST 48 34	5 147829 ASTOR345	345	1 -1.00000	-985.1	621.0	SB:FARR 345 8E B3402-B47-Q35L
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	-364.1	214.5	212	621	126275 E13ST 48 34	5 147829 ASTOR345	345	1 -1.00000	-985.1	621.0	SB:FARR#345 7E
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	-364.1	214.5	212	621	126275 E138T 48 34	5 147829 ASTOR345	345	1 -1.00000	-985.1	621.0	Open 126274 E138T 47 345 126277 FARRAGUU Open 126274 E138T 47 345 147829 ASTOR345 Open 126274 E138T 47 345 126869 E13 TX16 Open 126274 E138T 47 345 126870 E13 TX17 SB:FARR 345 SE
	-364.1	214.5	212	621	126275 E13ST 48 34	5 147829 ASTOR345	345	1 -1.00000	-985.1	621.0	Open 126274 E138T 47 345 126277 FARRAGUU Open 126274 E138T 47 345 147829 ASTOR345 Open 126274 E138T 47 345 126869 E13 TX16 Open 126274 E138T 47 345 126870 E13 TX17 SB:FARR 345 SE
	-364.1	214.5	212	621	126275 E138T 48 34	5 147829 ASTOR345	345	1 -1.00000	-985.1	621.0	Open 126274 E138T 47 345 126277 FARRAGUT Open 126274 E138T 47 345 147829 ASFORMATS Open 126274 E138T 47 345 126869 E13 TX16 Open 126274 E138T 47 345 126870 E13 TX17 SB:FARR 345 SE
	-364.1	214.5	212	621	126275 E13ST 48 34	5 147829 ASTOR345	345	1 -1,00000	-985.1	621.0	Open 126274 E1397 47 345 126277 FARRAGUI Open 126274 E1397 47 345 126967 E13 7X16 Open 126274 E1397 47 345 126967 E13 7X16 Open 126274 E1397 47 345 126967 E13 7X16 SE:FARR 345 8E Open 126274 E1397 47 345 126277 FARRAGUI
	-364.1	214.5	212	621	126275 E138T 48 34	5 147829 ASTOR345	345	1 -1.00000	-985.1	621.0	Open 126274 E138T 47         345 126277 FARRAGUT           Open 126274 E138T 47         345 147829 ASTOR3455           Open 126274 E138T 47         345 126699 E13 TX16           Open 126274 E138T 47         345 126870 E13 TX17           SB:FARR 345 8E         Open 126274 E138T 47         345 126277 FARRAGUT           Open 126274 E138T 47         345 126277 FARRAGUT           Open 126274 E138T 47         345 12688 E13 TX16
	-364.1	214.5	212	621	126275 E138T 48 34	5 147829 ASTOR345	345	1 -1.00000	-985.1	621.0	Open         126274         B1387         47         345         126277         FARRAGUI           Open         126274         B1387         47         345         126866         B13         726           Open         126274         B1387         47         345         126870         B13         717           SS:FARR         345         B         345         126277         B1387         47         345         126277         FARRAGUI           Open         126274         B1387         47         345         126277         FARRAGUI           Open         126274         B1387         47         345         126869         B13         787           Open         126274         B1387         47         345         126869         B13         787           Open         126274         B1387         47         345         126869         B13         787
							345				Open 126274 E138T 47         345 126277 FARRAGUI           Open 126274 E138T 47         345 126869 E13 TX16           Open 126274 E138T 47         345 126869 E13 TX16           Open 126274 E138T 47         345 126870 E13 TX16           Open 126274 E138T 47         345 126870 E13 TX16           Open 126274 E138T 47         345 126277 FARRAGUI           Open 126274 E138T 47         345 126869 E13 TX16           Open 126274 E138T 47         345 126869 E13 TX16           Open 126277 FARRAGUI         345 126870 E13 TX16           Open 126277 FARRAGUI         345 126870 E13 TX16           Open 126277 FARRAGUI         345 126870 E13 TX16
	-364.1	214.5	212	621	126275 E138T 48 34		345	0.15824	-985.1 19.0	621.0	Open 126274 E139T 47         345 126277 FARRAGUT           Open 126274 E139T 47         345 126869 E13 TK1           Open 126274 E139T 47         345 126869 E13 TK1           Open 126274 E139T 47         345 126869 E13 TK1           SB:FARR 345 0E         345 126277 FARRAGUT           Open 126274 E139T 47         345 126869 E13 TK1           Open 126277 FARRAGUT         345 126278 B3402 F           Open 126277 FARRAGUT         345 126278 B3402 F           Alssen 126277 FARRAGUT         345 126278 B3402 F           Alssen 126277 FARRAGUT         345 126278 B3402 F
	-119.8	458.8	456.3	865.3	Interface 20 ABC-JK	PAR-I	345	0.15824	19.0	0.0	Open 126274 E139T 47         345 126277 FARRAGUI           Open 126274 E139T 47         345 126867 E13 TX16           Open 126274 E139T 47         345 126869 E13 TX16           Open 126274 E139T 47         345 126870 E13 TX16           Open 126274 E139T 47         345 126277 EARRAGUI           Open 126274 E139T 47         345 126277 FARRAGUI           Open 126274 E139T 47         345 126867 E13 TX16           Open 126274 E139T 47         345 126867 E13 TX17           Open 126274 E139T 47         345 12686 E13 TX16           Open 126278 E139T 47         345 12686 E13 TX16           Open 126274 E139T 47         345 12686 E13 TX16           Open 126278 E139T 47         345 12686 E13 TX16           Open 126278 E139T 47         345 12687 E13 TX16           Open 126278 E139T 47         345 12686 E13 TX16           Open 126278 E139T 47         345 12687 E13 TX16
						PAR-I	345			0.0	Open 126274 E139T 47         345 126277 FARRAGUT           Open 126274 E139T 47         345 126869 E13 TK1           Open 126274 E139T 47         345 126869 E13 TK1           SB:FARR 345 9E         345 126869 E13 TK1           Open 126274 E139T 47         345 126277 FARRAGUT           Open 126274 E139T 47         345 126867 E13 TK1           Open 126274 E139T 47         345 126869 E13 TK1           Open 126274 E139T 47         345 126869 E13 TK1           Open 126277 FARRAGUT         345 12678 B13 TK1           Open 126277 FARRAGUT         345 126278 B130 TK1           Open 126277 FARRAGUT         345 126278 B130 TK1           Open 126277 FARRAGUT         345 12678 B130 TK1           Open 126277 FARRAGUT         345 12678 B130 TK1           Open 126270 FARRAGUT         345 12678 B130 TK1
	-119.8 -119.8	458.8	456.3 456.3	865.3 865.3	Interface 20 ABC-JK	PAR-I PAR-I	345	0.15824	19.0	0.0	Open 126274 E139T 47         345 126277 FARRAGUT           Open 126274 E139T 47         345 12696 E13 TX16           Open 126274 E139T 47         345 12696 E13 TX16           Open 126274 E139T 47         345 12696 E13 TX16           Open 126274 E139T 47         345 12697 E13 TX16           Open 126274 E139T 47         345 126277 FARRAGUT           Open 126274 E139T 47         345 12686 E13 TX16           Open 126274 E139T 47         345 12686 E13 TX16           Open 126274 E139T 47         345 12686 E13 TX16           Open 126277 E139T 47         345 12686 E13 TX16           Open 126277 E139T 47         345 126276 E313 TX17           Open 126277 E139T 47         345 126276 E3107           345 14899 E130073         345 14899 E10030CT3           148988 TD10305         345 14899 TD1030CT2           345 14899 TD1030CT2         345 14899 TD1030CT2
	-119.8	458.8	456.3	865.3	Interface 20 ABC-JK	PAR-I PAR-I	345	0.15824	19.0	0.0	Open         126274         B1387         47         345         126277         FARRAGUI           Open         126274         B1387         47         345         126869         B13         712           Open         126274         B1387         47         345         126870         B13         712           Open         126274         B1387         47         345         126870         B13         712           Open         126274         B1387         47         345         126669         B13         712           Open         126274         B1387         47         345         126669         B13         712           Open         126274         B1387         47         345         126669         B13         712           Open         126277         B1387         47
	-119.8 -119.8 -116.2	458.8 458.8 462.4	456.3 456.3	865.3 865.3 868.9	Interface 20 ABC-JK Interface 20 ABC-JK Interface 20 ABC-JK	PAR-I PAR-I PAR-I	345	0.15824 0.15824 0.07960	19.0 19.0 9.3	0.0	Open 126274 E139T 47         345 126277 FARRAGUT           Open 126274 E139T 47         345 126867 E13 717           Open 126274 E139T 47         345 126870 E13 717           Open 126274 E139T 47         345 126870 E13 717           SS:FARR 345 8E         345 126870 E13 717           Open 126274 E139T 47         345 126277 FARRAGUT           Open 126274 E139T 47         345 126867 E13 717           Open 126274 E139T 47         345 126867 E13 717           Open 126274 E139T 47         345 126867 E13 717           Open 126277 FARRAGUT         345 126278 E3402 E13 717           Open 126277 FARRAGUT         345 12679 E3400007           148988 TD10005         345 148991 TD1000071           148988 TD10305         345 148991 TD1030072           148988 TD10305         345 148990 TD1030072           148988 TD10305         345 148990 TD1030072           345 148991 TD1030072         345 148991 TD1030072
	-119.8 -119.8	458.8	456.3 456.3	865.3 865.3	Interface 20 ABC-JK	PAR-I PAR-I PAR-I	345	0.15824	19.0	0.0	Open 126274 E139T 47         345 126277 FARRAGUI           Open 126274 E139T 47         345 126869 E13 TM1           Open 126274 E139T 47         345 126869 E13 TM1           Open 126274 E139T 47         345 126869 E13 TM1           BB:FARR 345 SE         Open 126274 E139T 47         345 126667 E13 TM1           Open 126274 E139T 47         345 126669 E13 TM1         365 147823 ABTORIST           Open 126274 E139T 47         345 126669 E13 TM1         365 126669 E13 TM1           Open 126277 FARRAGUI         345 126669 E13 TM1         365 12678 E130T M1           Open 126277 FARRAGUI         345 126678 E130T M1         345 126678 E130T M1           Open 148988 TD10305         345 148991 TD1030CTI         1           Open 14988 TD10305         345 148990 TD1030CTI         1           Open 14998 TD10305         345 148990 TD1030CTI         1           Open 14998 TD10305         345 148990 TD1030CTI         1
	-119.8 -119.8 -116.2 -116.2	458.8 458.8 462.4 462.4	456.3 456.3 459.9	865.3 865.3 868.9	Interface 20 ABC-JK	PAR-I PAR-I PAR-I PAR-I	345	0.15824 0.15824 0.07960	19.0 19.0 9.3 9.3	0.0	Open 126274 E139T 47         345 126277 FARRAGUT           Open 126274 E139T 47         345 126867 E13 TK7           Open 126274 E139T 47         345 126867 E13 TK1           Open 126274 E139T 47         345 126870 E13 TK1           SF:FARR 345 9E         Open 126274 E139T 47         345 126277 FARRAGUT           Open 126274 E139T 47         345 126879 E13 TK1         345 12687 E13 TK1           Open 126274 E139T 47         345 126869 E13 TK1         345 126869 E13 TK1           Open 126274 E139T 47         345 126869 E13 TK1         345 12678 B3402 F           Open 126277 FARRAGUT         345 12678 B3402 F         345 12678 B3402 F           Open 146988 TD10305         345 148991 TD1030073 1         345 148991 TD1030072 1           Open 146988 TD10305         345 148990 TD1030072 1         345 148990 TD1030072 1           Open 146988 TD10305         345 148990 TD1030073 1         345 148990 TD1030073 1           348 988 TD10305         345 148990 TD1030073 1         345 148990 TD1030073 1           348 988 TD10305         345 148990 TD103087 3         345 148990 TD103087 3
	-119.8 -119.8 -116.2	458.8 458.8 462.4	456.3 456.3	865.3 865.3 868.9	Interface 20 ABC-JK Interface 20 ABC-JK Interface 20 ABC-JK	PAR-I PAR-I PAR-I PAR-I	345	0.15824 0.15824 0.07960	19.0 19.0 9.3	0.0	Open 126274 E139T 47         345 126277 FARRAGUI           Open 126274 E139T 47         345 126869 E13 TXI           Open 126274 E139T 47         345 126869 E13 TXI           SB:FARR 345 SE         345 126869 E13 TXI           Open 126274 E139T 47         345 126870 E13 TXI           Open 126274 E139T 47         345 126277 FARRAGUI           Open 126274 E139T 47         345 126277 FARRAGUI           Open 126274 E139T 47         345 126270 E13 TXI           Open 126277 FARRAGUI         345 126270 E13 TXI           Open 126277 FARRAGUI         345 126270 E13 TXI           Open 126277 FARRAGUI         345 148991 TXIGOGUTS         1           Open 146988 TXIGOGUS         345 148991 TXIGOGUTS         1           Open 146988 TXIGOGUS         345 148991 TXIGOGUTS         1           Open 146988 TXIGOGUS         345 148990 TXIGOGUS
	-119.8 -119.8 -116.2 -116.2	458.8 458.8 462.4 462.4	456.3 456.3 459.9 459.9	865.3 865.3 868.9 868.9	Interface 20 ABC-JK	PAR-I PAR-I I PAR-I I PAR-I PAR-I		0.15824 0.15824 0.07960 0.07960	19.0 19.0 9.3 9.3	0.0	Open 126274 E139T 47         345 126277 FARRAGUT           Open 126274 E139T 47         345 126867 E13 717           Open 126274 E139T 47         345 126867 E13 717           Open 126274 E139T 47         345 126870 E13 717           SI:FARR 345 9E         Open 126274 E139T 47         345 126277 FARRAGUT           Open 126274 E139T 47         345 126879 E13 717         345 126879 E13 717           Open 126274 E139T 47         345 126869 E13 712         345 126869 E13 712           Open 126274 E139T 47         345 126869 E13 712         345 126870 E13 712           Open 126277 FARRAGUT         345 12678 E3402         345 12678 E3402           Open 14898 TD10305         345 148991 TD1030073         345 148991 TD1030072           148988 TD10305         345 148991 TD1030072         345 148991 TD1030072           148988 TD10305         345 148991 TD1030072         345 148991 TD1030073           148988 TD10305         345 148991 TD1030073         345 148991 TD1030073           148988 TD10305         345 148991 TD1030873         345 148991 TD1030873           148988 TD10305         345 148991 TD1030873         345 148991 TD1030873           148988 TD10305         345 148991 TD1030873         345 148991 TD1030873           345 148991 TD1030873         345 148991 TD1030873         345 148991 TD1030873
	-119.8 -119.8 -116.2 -116.2	458.8 458.8 462.4 462.4	456.3 456.3 459.9	865.3 865.3 868.9	Interface 20 ABC-JK	PAR-I PAR-I I PAR-I I PAR-I PAR-I	345	0.15824 0.15824 0.07960	19.0 19.0 9.3 9.3	0.0	Open 126274 E139T 47         345 126277 FARRAGUT           Open 126274 E139T 47         345 126869 E13 TX1           Open 126274 E139T 47         345 126869 E13 TX1           SB:FARR 345 SE         345 126869 E13 TX1           Open 126274 E139T 47         345 126870 E13 TX1           Open 126277 FARRAGUT         345 126870 E13 TX1           Open 126277 PARRAGUT         345 126870 E13 TX1           Open 14988 TD10305         345 148991 TD1030CT2         1           Open 14988 TD10305         345 148990 TD1030CT2         1
	-119.8 -119.8 -116.2 -116.2 -116.2	458.8 458.8 462.4 462.4 514.7	456.3 456.3 459.9 459.9 512.2	865.3 865.3 868.9 868.9 868.9	Interface 20 ABC-JK Interface 30 ABC-JK Interface 30 ABC-JK Interface 30 ABC-JK	PAR-I PAR-I PAR-I TARAR-I TARAR-I 5 147829 ABTOR345	345	0.15824 0.15824 0.07960 0.07960 0.07960 1 -0.91251	19.0 19.0 9.3 9.3 9.3	0.0 0.0 0.0 0.0 0.0 621.0	Open 126274 E139T 47         345 126277 FARRAGUT           Open 126274 E139T 47         345 12666 E13 TM2           Open 126274 E139T 47         345 12666 E13 TM2           SB:FARR 345 DE         345 12667 E13 TM2           SB:FARR 345 DE         345 12667 E13 TM2           Open 126274 E139T 47         345 126277 FARRAGUT           Open 126274 E139T 47         345 12665 E13 TM2           Open 126274 E139T 47         345 12666 E13 TM2           Open 126274 E139T 47         345 12666 E13 TM2           Open 126274 E139T 47         345 12678 B302 EP           Open 126277 FARRAGUT         345 12678 B302 EP           Open 126277 FARRAGUT         345 12678 B302 EP           Open 146988 TD10305         345 148991 TD1030071         345 148991 TD1030072           Open 146988 TD10305         345 148990 TD1030072         345 148990 TD1030072           148988 TD10305
	-119.8 -119.8 -116.2 -116.2	458.8 458.8 462.4 462.4	456.3 456.3 459.9 459.9	865.3 865.3 868.9 868.9 868.9	Interface 20 ABC-JK Interface 30 ABC-JK Interface 30 ABC-JK Interface 30 ABC-JK	PAR-I PAR-I I PAR-I I PAR-I PAR-I		0.15824 0.15824 0.07960 0.07960	19.0 19.0 9.3 9.3	0.0 0.0 0.0 0.0 0.0 621.0	Open 126274 E139T 47         345 126277 FARRAGUT           Open 126274 E139T 47         345 126869 E13 TX1           Open 126274 E139T 47         345 126869 E13 TX1           SB:FARR 345 SE         345 126869 E13 TX1           Open 126274 E139T 47         345 126870 E13 TX1           Open 126277 FARRAGUT         345 126870 E13 TX1           Open 126277 PARRAGUT         345 126870 E13 TX1           Open 14988 TD10305         345 148991 TD1030CT2         1           Open 14988 TD10305         345 148990 TD1030CT2         1
	-119.8 -119.8 -116.2 -116.2 -116.2	458.8 458.8 462.4 462.4 514.7	456.3 456.3 459.9 459.9 512.2	865.3 865.3 868.9 868.9 868.9	Interface 20 ABC-JK Interface 30 ABC-JK Interface 30 ABC-JK Interface 30 ABC-JK	PAR-I PAR-I PAR-I TARAR-I TARAR-I 5 147829 ABTOR345	345	0.15824 0.15824 0.07960 0.07960 0.07960 1 -0.91251	19.0 19.0 9.3 9.3 9.3	0.0 0.0 0.0 0.0 0.0 621.0	Open 126274 E139T 47         345 126277 FARRAGUT           Open 126274 E139T 47         345 12666 E13 TM2           Open 126274 E139T 47         345 12666 E13 TM2           SB:FARR 345 DE         345 12667 E13 TM2           SB:FARR 345 DE         345 12667 E13 TM2           Open 126274 E139T 47         345 126277 FARRAGUT           Open 126274 E139T 47         345 12665 E13 TM2           Open 126274 E139T 47         345 12666 E13 TM2           Open 126274 E139T 47         345 12666 E13 TM2           Open 126274 E139T 47         345 12678 B302 EP           Open 126277 FARRAGUT         345 12678 B302 EP           Open 126277 FARRAGUT         345 12678 B302 EP           Open 146988 TD10305         345 148991 TD1030071         345 148991 TD1030072           Open 146988 TD10305         345 148990 TD1030072         345 148990 TD1030072           148988 TD10305
	-119.8 -119.8 -116.2 -116.2 -116.2	458.8 458.8 462.4 462.4 514.7	456.3 456.3 459.9 459.9 512.2	865.3 865.3 868.9 868.9 868.9	Interface 20 ABC-JK Interface 30 ABC-JK Interface 30 ABC-JK Interface 30 ABC-JK	PAR-I PAR-I PAR-I PAR-I PAR-I 147829 ABTOR345 5 147829 ABTOR345	345	0.15824 0.15824 0.07960 0.07960 0.07960 1 -0.91251	19.0 19.0 9.3 9.3 9.3	0.0 0.0 0.0 0.0 0.0 621.0	Open 126274 E139T 47         345 126277 FARRAGUT           Open 126274 E139T 47         345 126869 E13 T147           Open 126274 E139T 47         345 126869 E13 T147           SB:FARR 345 SE         345 126869 E13 T147           SB:FARR 345 SE         345 126877 FARRAGUT           Open 126274 E139T 47         345 126869 E13 T147           Open 126274 E139T 47         345 126869 E13 T147           Open 126274 E139T 47         345 126869 E13 T147           Open 126277 FARRAGUT         345 126869 E13 T147           Open 126277 FARRAGUT         345 126278 B300 E13 T147           Open 126277 FARRAGUT         345 126278 B300 E13 T147           Open 146988 TD10305         345 148991 TD10300CT2           Open 146988 TD10305         345 148991 TD10300CT2           Open 146988 TD10305         345 148990 TD10300T2           146988 TD10305         345 148990 TD10300T2           126278 E139T 47         345 126277 FARRAGUT           Open 146988 TD10305         345 148990 TD10300T2           126278 E139T 48         345 126277 FARRAGUT
	-119.8 -119.8 -116.2 -116.2 -116.2 -63.9 -45.7	458.8 458.8 462.4 462.4 514.7 532.9	456.3 456.3 459.9 459.9 512.2	865.3 865.3 868.9 868.9 921.2	Interface 20 ABC-JK 34 126275 E138T 48 34	PAR-I PAR-I PAR-I PAR-I 1 PAR-I 5 147829 ASTOR345 5 147829 ASTOR345 5 147829 ASTOR345	345	0.15824 0.15824 0.07960 0.07960 0.07960 1 -0.91251 1 -0.94877	19.0 19.0 9.3 9.3 -679.3	0.0 0.0 0.0 0.0 0.0 621.0	Open 126274 E139T 47         345 126277 FARRAGUT           Open 126274 E139T 47         345 126869 E13 T147           Open 126274 E139T 47         345 126869 E13 T147           SB:FARR 345 SE         345 126869 E13 T147           SB:FARR 345 SE         345 126877 FARRAGUT           Open 126274 E139T 47         345 126869 E13 T147           Open 126274 E139T 47         345 126869 E13 T147           Open 126274 E139T 47         345 126869 E13 T147           Open 126277 FARRAGUT         345 126869 E13 T147           Open 126277 FARRAGUT         345 126278 B300 E13 T147           Open 126277 FARRAGUT         345 126278 B300 E13 T147           Open 146988 TD10305         345 148991 TD10300CT2           Open 146988 TD10305         345 148991 TD10300CT2           Open 146988 TD10305         345 148990 TD10300T2           146988 TD10305         345 148990 TD10300T2           126278 E139T 47         345 126277 FARRAGUT           Open 146988 TD10305         345 148990 TD10300T2           126278 E139T 48         345 126277 FARRAGUT
	-119.8 -119.8 -116.2 -116.2 -116.2 -16.2 -45.7 89.2	458.8 458.8 462.4 462.4 514.7 532.9	456.3 456.3 459.9 459.9 459.9 512.2 530.4	865.3 865.3 868.9 868.9 921.2 939.4	Interface 20 ABC-JK 126275 E13ST 49 34 126274 E13ST 47 34	PAR-I PAR-I PAR-I PAR-I 1 PAR-I 5 147829 ASTOR345 5 147829 ASTOR345 5 147829 ASTOR345	345 345 345	0.15824 0.15824 0.07960 0.07960 0.07960 1 -0.91251 1 -0.94877 1 -0.50815	19.0 19.0 9.3 9.3 9.3 -679.3 -664.4	0.0 0.0 0.0 0.0 621.0 538.0	Open 126274 E139T 47         345 126277 FARRAGUT           Open 126274 E139T 47         345 126869 E13 TM2           Open 126274 E139T 47         345 126869 E13 TM2           Open 126274 E139T 47         345 126869 E13 TM2           SB:FARR, 345 SE         9           Open 126274 E139T 47         345 126277 FARRAGUT           Open 126274 E139T 47         345 126277 FARRAGUT           Open 126274 E139T 47         345 126870 E13 TM2           Open 126274 E139T 47         345 126871 E14691 TM2000CT           18980 TM20005         345 148991 TM2000CT         1           Open 146988 TM2005         345 148991 TM2000CT         1           Open 146988 TM2005         345 148994 TM2000CT         345 148994 TM2000CT           Open 146988 TM2005         345 148994 TM2000CT         345 148994 TM2000CT           Open 146988 TM2005         345 148994 TM2000CT         345 148994 TM2000CT           Open 146988 TM2005         345 148994 TM2000CT         345 148994 TM2000CT           Open 146988 TM2005         345 148994 TM2000CT         345 148994 TM2000CT           Open 146988 TM2005         345 148994 TM2000CT<
	-119.8 -119.8 -116.2 -116.2 -116.2 -16.2 -45.7 89.2	458.8 458.8 462.4 462.4 514.7 532.9	456.3 456.3 459.9 459.9 459.9 512.2 530.4	865.3 865.3 868.9 868.9 921.2 939.4	Interface 20 ABC-JK 126275 E13ST 49 34 126274 E13ST 47 34	PAR-I PAR-I PAR-I PAR-I 1 PAR-I 5 147829 ASTOR345 5 147829 ASTOR345 5 147829 ASTOR345	345 345 345	0.15824 0.15824 0.07960 0.07960 0.07960 1 -0.91251 1 -0.94877 1 -0.50815	19.0 19.0 9.3 9.3 9.3 -679.3 -664.4	0.0 0.0 0.0 0.0 621.0 538.0	Open 126274 E139T 47         345 126277 FARRAGUT           Open 126274 E139T 47         345 126867 E13 717           Open 126274 E139T 47         345 126867 E13 717           Open 126274 E139T 47         345 126870 E13 717           SIFYARR 345 9E         Open 126274 E139T 47         345 126277 FARRAGUT           Open 126274 E139T 47         345 126879 FARRAGUT         345 126879 FARRAGUT           Open 126274 E139T 47         345 126869 E13 717           Open 126274 E139T 47         345 126869 E13 717           Open 126277 FARRAGUT         345 126278 E330T 47           Open 126277 FARRAGUT         345 126278 E330T 47           Copen 146988 TD10305         345 148991 TD10300T3         345 148991 TD10300T3           Open 146988 TD10305         345 148991 TD10300T2         345 148991 TD10300T2           Open 146988 TD10305         345 148991 TD10300T2         345 148991 TD10300T2           148988 TD10305         345 148991 TD10300T2         345 148991 TD10300T2           148988 TD10305         345 148991 TD10300T2         345 148991 TD10300T2           148988 TD10305         345 148991 TD10300T3         345 148991 TD10300T3           148988 TD10305         345 148991 TD10300T3         345 148991 TD10300T3           148988 TD10305         345 148992 TD10308T2         345 148992 TD10308T2
	-119.8 -119.8 -116.2 -116.2 -116.2 -16.2 -45.7 89.2	458.8 458.8 462.4 462.4 514.7 532.9	456.3 456.3 459.9 459.9 459.9 512.2 530.4	865.3 865.3 868.9 868.9 921.2 939.4 1074.4 1074.9	Interface 20 ABC-JK 126275 E13ST 49 34 126274 E13ST 47 34	PAR-I PAR-I PAR-I PAR-I PAR-I 147829 ABTOR345 5 147829 ABTOR345 5 147829 ABTOR345 5 147829 ABTOR345	345 345 345	0.15824 0.15824 0.07960 0.07960 0.07960 1 -0.91251 1 -0.94877 1 -0.50815	19.0 19.0 9.3 9.3 9.3 -679.3 -664.4	0.0 0.0 0.0 0.0 621.0 538.0	Open 126274 E139T 47         345 126277 FARRAGUT           Open 126274 E139T 47         345 126867 E13 717           Open 126274 E139T 47         345 126867 E13 717           Open 126274 E139T 47         345 126870 E13 717           SIFYARR 345 9E         Open 126274 E139T 47         345 126277 FARRAGUT           Open 126274 E139T 47         345 126879 FARRAGUT         345 126879 FARRAGUT           Open 126274 E139T 47         345 126869 E13 717           Open 126274 E139T 47         345 126869 E13 717           Open 126277 FARRAGUT         345 126278 E330T 47           Open 126277 FARRAGUT         345 126278 E330T 47           Copen 146988 TD10305         345 148991 TD10300T3         345 148991 TD10300T3           Open 146988 TD10305         345 148991 TD10300T2         345 148991 TD10300T2           Open 146988 TD10305         345 148991 TD10300T2         345 148991 TD10300T2           148988 TD10305         345 148991 TD10300T2         345 148991 TD10300T2           148988 TD10305         345 148991 TD10300T2         345 148991 TD10300T2           148988 TD10305         345 148991 TD10300T3         345 148991 TD10300T3           148988 TD10305         345 148991 TD10300T3         345 148991 TD10300T3           148988 TD10305         345 148992 TD10308T2         345 148992 TD10308T2
	-119.8 -119.8 -116.2 -116.2 -13.9 -45.7 89.2	458.8 458.8 462.4 462.4 514.7 532.9 667.9 668.4	456.3 456.3 459.9 459.9 459.9 512.2 530.4 665.3 665.9	865.3 865.3 868.9 868.9 921.2 939.4 1074.4 1074.9	Interface 20 ABC-JR  Interface 34 ABC-JR  Interface 34 ABC-JR  Interface 34 ABC-JR  Interface 35 ABC-JR  Interface 30 ABC-JR  Interface	PAR-I PAR-I PAR-I PAR-I PAR-I 5 147829 ABTOR345 5 147829 ABTOR345 5 147829 ABTOR345 5 147829 ABTOR345	345 345 345 345	0.15824 0.15824 0.07960 0.07960 0.07960 1-0.91251 1-0.94677 1-0.50815 1-1.00000	19.0 19.0 9.3 9.3 -679.3 -664.4 -492.7 -531.2	0.0 0.0 0.0 0.0 0.0 621.0 538.0 621.0	Open 126274 E139T 47         345 126277 FARRAGUT           Open 126274 E139T 47         345 126867 E13 TX17           Open 126274 E139T 47         345 126867 E13 TX17           SS:FARR 345 SE         Open 126274 E139T 47         345 126877 FARRAGUT           Open 126274 E139T 47         345 126277 FARRAGUT         345 126277 FARRAGUT           Open 126274 E139T 47         345 126869 E13 TX17           Open 126274 E139T 47         345 126869 E13 TX17           Open 126274 E139T 47         345 126869 E13 TX17           Open 126277 FARRAGUT         345 126278 E3302 TX           Open 126277 FARRAGUT         345 126278 E3302 TX           Open 146988 TDIG0305         345 148991 TDIG030073 1           148988 TDIG0305         345 148991 TDIG030072 1           148988 TDIG0305         345 148991 TDIG030072 1           148988 TDIG0305         345 148993 TDIG030073 1           148988 TDIG0305         345 148995 TDIG030071 1           126275 E139T 47         345 126277 FARRAGUT
	-119.8 -119.8 -116.2 -116.2 -13.9 -45.7 89.2	458.8 458.8 462.4 462.4 514.7 532.9 667.9 668.4	456.3 456.3 459.9 459.9 459.9 512.2 530.4 665.3 665.9	865.3 865.3 868.9 868.9 921.2 939.4 1074.4 1074.9	Interface 20 ABC-JR  Interface 34 ABC-JR  Interface 34 ABC-JR  Interface 34 ABC-JR  Interface 35 ABC-JR  Interface 30 ABC-JR  Interface	PAR-I PAR-I PAR-I PAR-I PAR-I 5 147829 ABTOR345 5 147829 ABTOR345 5 147829 ABTOR345 5 147829 ABTOR345	345 345 345 345	0.15824 0.15824 0.07960 0.07960 0.07960 1-0.91251 1-0.94677 1-0.50815 1-1.00000	19.0 19.0 9.3 9.3 -679.3 -664.4 -492.7 -531.2	0.0 0.0 0.0 0.0 0.0 621.0 538.0 621.0	Open 126274 E1397 47         345 126277 FARRAGUT           Open 126274 E1397 47         345 126869 E13 TM2           Open 126274 E1397 47         345 126869 E13 TM2           Open 126274 E1397 47         345 126869 E13 TM2           BE FRAR 345 SE         Open 126274 E1397 47         345 147829 AFFOR345           Open 126274 E1397 47         345 147829 AFFOR345         Open 126274 E1397 47         345 147829 AFFOR345           Open 126274 E1397 47         345 126869 E13 TM2         Open 126277 FARRAGUT         345 126876 E13 TM2           Open 126277 FARRAGUT         345 126876 E13 TM2         Open 126277 FARRAGUT         345 126876 E13 TM2           Open 148988 TD10305         345 148991 TD10306T2         1         Open 148988 TD10306T2         1           Open 148988 TD10305         345 148991 TD10306T2         1         Open 148988 TD10306T2         1           Open 148988 TD10305         345 148991 TD10306T2         1         Open 148988 TD10305T2         345 148991 TD10306T2         1           Open 148988 TD10305         345 148994 TD10306T2         1         Open 148988 TD10305T3         345 148994 TD10306T3         1           Open 148988 TD10305         345 148994 TD10306T3         1         Open 148988 TD10306T3         1           Open 126274 E1397 47         345 126277 FARRAGUT         Open 126277 E13
	-119.8 -119.8 -116.2 -116.2 -116.2 -63.9 -45.7 89.2 89.8	458.8 458.8 462.4 462.4 462.4 514.7 532.9 667.9 668.4	456.3 456.3 459.9 459.9 459.9 512.2 530.4 665.3 665.9	865.3 865.3 868.9 868.9 921.2 939.4 1074.4 1074.9	Interface 20 ABC-JK Interface 30 ABC-JK Interf	PAR-I PAR-I PAR-I 15 147829 A8TOR345 5 147829 A8TOR345 5 147829 A8TOR345 5 147829 A8TOR345	345 345 345 345 345	0.15824 0.15824 0.07960 0.07960 0.07960 1 -0.91251 1 -0.94677 1 -0.50815 1 -1.00000	19.0 19.0 9.3 9.3 9.3 -679.3 -664.4 -492.7 -531.2	0.0 0.0 0.0 0.0 0.0 621.0 621.0 621.0	Open 126274 E139T 47         345 126277 FARRAGUT           Open 126274 E139T 47         345 12666 E13 TM2           Open 126274 E139T 47         345 12666 E13 TM2           SB:FARR, 345 SE         345 126670 E13 TM2           Open 126274 E139T 47         345 126670 E13 TM2           SB:FARR, 345 SE         345 126277 FARRAGUT           Open 126274 E139T 47         345 126277 FARRAGUT           Open 126274 E139T 47         345 126278 B300 E13 TM2           Open 126274 E139T 47         345 126278 B300 E13 TM2           Open 126277 FARRAGUT         345 126278 B300 E13 TM2           Open 126277 FARRAGUT         345 126278 B300 E13 TM2           Open 146988 TD10305         345 148991 TD10300073         345 148991 TD10300073           Open 146988 TD10305         345 148991 TD10300072         345 148991 TD10300072           Chem 146988 TD10305         345 148992 TD103008T         345 148992 TD103008T           146988 TD10305         345 148992 TD103008T         345 148992 TD103008T           146988 TD10305         345 148992 TD10308T         345 148992 TD10308T           126078 E139T 47         345 126277 FARRAGUT           Open 126274 E139T 47         345 126277 FARRAGUT           Open 126275 E139T 48         345 126277 FARRAGUT           Open 126275 E139T 48         345 126277 FARRAGUT
	-119.8 -119.8 -116.2 -116.2 -116.2 -163.9 -45.7 89.2 89.8	458.8 458.8 462.4 462.4 514.7 532.9 667.9 668.4	456.3 459.9 459.9 459.9 512.2 530.4 665.3 665.9	865.3 865.3 868.9 868.9 921.2 939.4 1074.4 1074.9	Interface 20 ABC-JK Interf	PAR-I PAR-I PAR-I PAR-I PAR-I 5 147829 ABTOR345 5 147829 ABTOR345 5 147829 ABTOR345 5 147829 ABTOR345	345 345 345 345 345	0.15824 0.15824 0.07960 0.07960 0.07960 1-0.91251 1-0.94877 1-0.55815 1-1.00000 1-1.00000 1-0.49185	19.0 19.0 9.3 9.3 9.3 -679.3 -664.4 -492.7 -531.2	0.0 0.0 0.0 0.0 621.0 621.0 621.0	Open 126274 E139T 47         345 126277 FARRAGUT           Open 126274 E139T 47         345 126869 E13 TM2           Open 126274 E139T 47         345 126869 E13 TM2           Open 126274 E139T 47         345 126869 E13 TM2           BE FRAR 345 SE         Open 126274 E139T 47         345 126867 E13 TM2           Open 126274 E139T 47         345 147829 ABTOR345         Open 126274 E139T 47         345 147829 ABTOR345           Open 126274 E139T 47         345 126869 E13 TM2         Open 126277 FARRAGUT         345 126878 E33 TM2           Open 126277 FARRAGUT         345 126878 E33 TM2         Open 126277 FARRAGUT         345 126878 E3300000000000000000000000000000000000
	-119.8 -119.8 -116.2 -116.2 -116.2 -63.9 -45.7 89.2 89.8	458.8 458.8 462.4 462.4 462.4 514.7 532.9 667.9 668.4	456.3 456.3 459.9 459.9 459.9 512.2 530.4 665.3 665.9	865.3 865.3 868.9 868.9 921.2 939.4 1074.4 1074.9	Interface 20 ABC-JK Interface 30 ABC-JK Interf	PAR-I PAR-I PAR-I PAR-I PAR-I 5 147829 ABTOR345 5 147829 ABTOR345 5 147829 ABTOR345 5 147829 ABTOR345	345 345 345 345 345	0.15824 0.15824 0.07960 0.07960 0.07960 1 -0.91251 1 -0.94677 1 -0.50815 1 -1.00000	19.0 19.0 9.3 9.3 9.3 -679.3 -664.4 -492.7 -531.2	0.0 0.0 0.0 0.0 0.0 621.0 621.0 621.0	Open 126274 E139T 47         345 126277 FARRAGUT           Open 126274 E139T 47         345 12666 E13 TX17           Open 126274 E139T 47         345 12666 E13 TX17           SB:FARR 345 DE         345 126670 E13 TX17           SB:FARR 345 DE         345 126670 E13 TX17           SB:FARR 345 DE         345 126277 PARRAGUT           Open 126274 E139T 47         345 12665 E13 TX17           Open 126274 E139T 47         345 12665 E13 TX16           Open 126274 E139T 47         345 12665 E13 TX16           Open 126274 E139T 47         345 12678 B3402 F1           Open 126277 PARRAGUT         345 126278 B3402 F1           Open 126277 PARRAGUT         345 126278 B3402 F1           Open 146988 TD10305         345 148991 TD10300073           148988 TD10305         345 148991 TD10300072           148988 TD10305         345 148992 TD10300072           148988 TD10305
	-119.8 -119.8 -116.2 -116.2 -116.2 -163.9 -45.7 89.2 89.8 89.8	458.8 458.8 462.4 462.4 514.7 532.9 667.9 668.4 671.2 794.4	456.3 456.3 459.9 459.9 459.9 512.2 530.4 665.9 665.9	865.3 865.3 868.9 868.9 868.9 921.2 939.4 1074.4 1074.9	Interface 20 ABC-JK Interface 30 ABC-JK Interface 20 ABC-JK Interf	PAR-I PAR-I PAR-I PAR-I PAR-I  1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	345 345 345 345 345 345	0.15824 0.15824 0.07960 0.07960 0.07960 1-0.91251 1-0.50815 1-1.00000 1-1.00000 1-0.50815 1-0.50876	19.0 19.0 9.3 9.3 -679.3 -664.4 -492.7 -531.2	0.0 0.0 0.0 0.0 621.0 621.0 621.0	Open 126274 E1397 47         345 126277 FARRAGUT           Open 126274 E1397 47         345 126869 E13 714           Open 126274 E1397 47         345 126869 E13 714           Open 126274 E1397 47         345 1268670 E13 712           Open 126274 E1397 47         345 1268670 E13 712           Open 126274 E1397 47         345 126669 E13 712           Open 126274 E1397 47         345 126669 E13 712           Open 126277 FARRAGUT         345 126670 E13 712           Open 146988 TD10305         345 148991 TD1030CT2         1           Open 146988 TD10305         345 148991 TD1030CT2         1           Open 146988 TD10305         345 148990 TD1030CT2         1
	-119.8 -119.8 -116.2 -116.2 -116.2 -163.9 -45.7 89.2 89.8	458.8 458.8 462.4 462.4 514.7 532.9 667.9 668.4	456.3 456.3 459.9 459.9 459.9 512.2 530.4 665.9 665.9	865.3 865.3 868.9 868.9 921.2 939.4 1074.4 1074.9	Interface 20 ABC-JK Interf	PAR-I PAR-I PAR-I PAR-I PAR-I  1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	345 345 345 345 345	0.15824 0.15824 0.07960 0.07960 0.07960 1-0.91251 1-0.94877 1-0.55815 1-1.00000 1-1.00000 1-0.49185	19.0 19.0 9.3 9.3 9.3 -679.3 -664.4 -492.7 -531.2	0.0 0.0 0.0 0.0 621.0 621.0 621.0	Open 126274 E139T 47         345 126277 FARRAGUT           Open 126274 E139T 47         345 12666 E13 TX17           Open 126274 E139T 47         345 12666 E13 TX17           SB:FARR 345 0E         345 126670 E13 TX17           Open 126274 E139T 47         345 126670 E13 TX17           SB:FARR 345 0E         345 126277 FARRAGUT           Open 126274 E139T 47         345 12665 E13 TX17           Open 126274 E139T 47         345 12665 E13 TX16           Open 126274 E139T 47         345 12665 E13 TX16           Open 126277 FARRAGUT         345 126278 B3402 F           Open 126277 FARRAGUT         345 126278 B3402 F           Open 126277 FARRAGUT         345 126278 B3402 F           Open 146988 TD10305         345 148991 TD1030072 1           Open 146988 TD10305         345 148991 TD1030072 1           Open 146988 TD10305         345 148991 TD1030072 1           148988 TD10305         345 148991 TD1030072 1           126278 E139T 47         345 126277 FARRAGUT
	-119.8 -119.8 -116.2 -116.2 -116.2 -116.2 -13.9 -45.7 89.2 89.8 89.6 215.8	458.8 458.8 462.4 462.4 514.7 532.9 667.9 668.4 671.2 794.4	456.3 459.9 459.9 459.9 512.2 530.4 665.3 665.9 668.7 791.9	865.3 865.3 868.9 868.9 921.2 939.4 1074.4 1074.9 1077.7 1200.9	Interface 20 ABC-JK 126275 E138T 49 34 126274 E138T 47 34 126274 E138T 47 34 126274 E138T 47 34 126274 E138T 47 34	PAR-I PAR-I PAR-I PAR-I PAR-I  5 147829 ABTOR345	345 345 345 345 345 345 345	0.15824 0.15824 0.07960 0.07960 0.07960 1 -0.91251 1 -0.94877 1 -0.50815 1 -1.00000 1 -1.00000 1 -0.49185 1 -0.50876	19.0 19.0 9.3 9.3 9.3 -679.3 -664.4 -492.7 -531.2 -531.2	0.0 0.0 0.0 0.0 0.0 621.0 621.0 621.0 621.0 621.0	Open 126274 E1397 47         345 126277 FARRAGUE           Open 126274 E1397 47         345 126869 E13 716           Open 126274 E1397 47         345 126869 E13 716           Open 126274 E1397 47         345 126869 E13 716           Open 126274 E1397 47         345 126870 E13 716           Open 126274 E1397 47         345 126872 FARRAGUE           Open 126274 E1397 47         345 126878 E13 716           Open 126277 FARRAGUE         345 126878 E13 716           Open 126277 FARRAGUE         345 126878 E1397 E17           Open 126277 FARRAGUE         345 126878 E1307 E17           Open 126277 FARRAGUE         345 126878 E1307 E17           Open 148988 TD10005         345 148991 TD1000CT2         1           Open 148988 TD10005         345 148990 TD1000CT1         1 </td
	-119.8 -119.8 -116.2 -116.2 -116.2 -163.9 -45.7 89.2 89.8 89.8	458.8 458.8 462.4 462.4 514.7 532.9 667.9 668.4 671.2 794.4	456.3 456.3 459.9 459.9 459.9 512.2 530.4 665.3 665.9	865.3 865.3 868.9 868.9 868.9 921.2 939.4 1074.4 1074.9	Interface 20 ABC-JK Interface 30 ABC-JK Interface 20 ABC-JK Interf	PAR-I PAR-I PAR-I PAR-I PAR-I  5 147829 ABTOR345	345 345 345 345 345 345	0.15824 0.15824 0.07960 0.07960 0.07960 1-0.91251 1-0.50815 1-1.00000 1-1.00000 1-0.50815 1-0.50876	19.0 19.0 9.3 9.3 -679.3 -664.4 -492.7 -531.2	0.0 0.0 0.0 0.0 621.0 621.0 621.0	Open 126274 E139T 47         345 126277 FARRAGUT           Open 126274 E139T 47         345 126868 E13 TM2           Open 126274 E139T 47         345 126868 E13 TM2           SB:FARR 345 SE         345 126868 E13 TM2           Open 126274 E139T 47         345 126870 E13 TM2           SB:FARR 345 SE         345 126877 FARRAGUT           Open 126274 E139T 47         345 12685 E13 TM2           Open 126274 E139T 47         345 12685 E13 TM2           Open 126277 FARRAGUT         345 12685 E13 TM2           Open 126277 FARRAGUT         345 12685 E13 TM2           Open 126277 FARRAGUT         345 126870 E13 TM2           Open 126277 FARRAGUT         345 148991 DM300CT2         1           Open 146988 TD10305         345 148991 DM300CT2         1           Open 146988 TD10305         345 148990 TM300CT2         1           Open 146988 TD10305         345 148990 TM300ST2         1           Open 146988 TD10305         345 148990 TM300ST2         1           Open 146988 TD10305         345 148990 TM300ST2         1           Open 146988 TM3035         345 148990 TM300ST2         1           Open 146988 TM3035         345 148990 TM300ST2         1           Open 146988 TM3035         345 148990 TM300ST2         1           Open 126
	-119.8 -119.8 -116.2 -116.2 -116.2 -13.9 -45.7 89.2 89.8 89.8 215.8 220.0	458.8 458.8 462.4 462.4 514.7 532.9 667.9 668.4 668.4 794.4 799.7	456.3 456.3 459.9 459.9 459.9 512.2 530.4 665.9 665.9 791.9 796.1	865.3 865.3 868.9 868.9 868.9 921.2 939.4 1074.9 1074.9 1077.7 1200.9 1205.2	Interface 20 ABC-JK 126275 E138T 48 34 126274 E138T 47 34 126275 E138T 48 34 126274 E138T 47 34 126274 E138T 47 34 126274 E138T 47 34 126274 E138T 47 34	PAR-I PAR-I PAR-I PAR-I PAR-I PAR-I 1 PAR-I 1 PAR-I 1 147829 ASTOR345 5 147829 ASTOR345	345 345 345 345 345 345 345 345	0.15824 0.15824 0.07960 0.07960 0.07960 1 -0.91251 1 -0.94877 1 -0.50815 1 -1.00000 1 -0.9185 1 -0.50876 1 -0.50876 1 -0.50868 1 -0.49243	19.0 19.0 9.3 9.3 9.3 -679.3 -644.4 -492.7 -531.2 -492.5 -511.2 -591.2	0.0 0.0 0.0 0.0 0.0 621.0 621.0 538.0 621.0 538.0 621.0 621.0	Open 126274 E139T 47         345 126277 FARRAGUE           Open 126274 E139T 47         345 126869 E13 TML           Open 126274 E139T 47         345 126869 E13 TML           Open 126274 E139T 47         345 126869 E13 TML           SB:FARR 345 SE         Open 126274 E139T 47         345 126870 E13 TML           Open 126274 E139T 47         345 126870 E13 TML         345 126870 E13 TML           Open 126274 E139T 47         345 126870 E13 TML         345 126870 E13 TML           Open 126277 E139T 47         345 126870 E13 TML         345 126870 E13 TML           Open 126277 PARIAGUE         345 126870 E13 TML         345 126870 E13 TML           Open 146988 TD10305         345 148991 TD1030CT2         345 148991 TD1030CT2         1           Open 146988 TD10305         345 148990 TD1030CT2         345 148990 TD1030CT2         1           Open 146988 TD10305         345 148990 TD1030CT2         345 148990 TD1030CT2         1           Open 146988 TD10305         345 148990 TD1030CT2         345 148990 TD1030CT2         1           Open 146988 TD10305         345 148990 TD1030CT2         345 148990 TD1030CT2         1           Open 146988 TD10305         345 148990 TD1030CT2         345 148990 TD1030CT1         1           Open 146988 TD10305         345 148990 TD1030CT1         345 148990 TD1030CT1
	-119.8 -119.8 -116.2 -116.2 -116.2 -116.2 -63.9 -45.7 89.2 89.8 89.8 92.6 215.8 220.0 220.9	458.8 458.8 462.4 462.4 462.4 514.7 532.9 667.9 668.4 671.2 794.4 798.7	456.3 456.3 459.9 459.9 459.9 512.2 530.4 665.9 665.9 791.9 796.1	865.3 865.3 868.9 868.9 921.2 939.4 1074.4 1077.7 1200.9 1205.2	Interface 20 ABC-JK Interface 30 ABC-JK Interf	PAR-I PAR-I PAR-I PAR-I TABAR-I TABAR-I 5 147829 A9TOR345	345 345 345 345 345 345 345 345 345	0.15824 0.15924 0.07960 0.07960 0.07960 1 -0.91251 1 -0.94877 1 -0.50815 1 -1.00000 1 -0.49185 1 -0.50876 1 -0.50868 1 -0.50868 1 -0.49243 1 0.45372	19.0 19.0 9.3 9.3 9.3 -679.3 -664.4 -492.7 -531.2 -531.2 -591.2 -511.2 -509.1	0.0 0.0 0.0 0.0 0.0 0.0 621.0 621.0 621.0 538.0 621.0 621.0 621.0 621.0 621.0	Open 126274 E139T 47         345 126277 FARRAGUT           Open 126274 E139T 47         345 126869 E13 TM2           Open 126274 E139T 47         345 126869 E13 TM2           SB:FARR 345 9E         345 126869 E13 TM2           Open 126274 E139T 47         345 126879 ABTORN45           Open 126274 E139T 47         345 126879 ABTORN45           Open 126274 E139T 47         345 126869 E13 TM2           Open 126274 E139T 47         345 126869 E13 TM2           Open 126277 FARRAGUT         345 126869 E13 TM2           Open 126277 PARRAGUT         345 126278 B310 TM           Open 126277 PARRAGUT         345 126278 B310 TM           Open 126277 PARRAGUT         345 12689 E13 TM2           Open 126278 PARRAGUT         345 12699 E13 TM2           Open 126278 PARRAGUT         345 12699 E13 TM2           Open 126278 E139T 48         345 12699 TD1030072         345 12699 TD1030072           Open 126278 E139T 48         345 12699 TD10308T         345 12699 TD10308T           126278 E139T 48         345 126277 FARRAGUT           Open 126278 E139T 48         345 126277 FARRAGUT           Op
	-119.8 -119.8 -116.2 -116.2 -116.2 -13.9 -45.7 89.2 89.8 89.8 215.8 220.0	458.8 458.8 462.4 462.4 514.7 532.9 667.9 668.4 668.4 794.4 799.7	456.3 456.3 459.9 459.9 459.9 512.2 530.4 665.9 665.9 791.9 796.1	865.3 865.3 868.9 868.9 921.2 939.4 1074.4 1077.7 1200.9 1205.2	Interface 20 ABC-JK Interface 30 ABC-JK Interf	PAR-I PAR-I PAR-I PAR-I PAR-I PAR-I 1 PAR-I 1 PAR-I 1 147829 ASTOR345 5 147829 ASTOR345	345 345 345 345 345 345 345 345	0.15824 0.15824 0.07960 0.07960 0.07960 1 -0.91251 1 -0.94877 1 -0.50815 1 -1.00000 1 -0.9185 1 -0.50876 1 -0.50876 1 -0.50868 1 -0.49243	19.0 19.0 9.3 9.3 9.3 -679.3 -644.4 -492.7 -531.2 -492.5 -511.2 -591.2	0.0 0.0 0.0 0.0 0.0 0.0 621.0 621.0 621.0 538.0 621.0 621.0 621.0 621.0 621.0	Open 126274 E139T 47         345 126277 FARRAGUE           Open 126274 E139T 47         345 126869 E13 TXL7           Open 126274 E139T 47         345 126869 E13 TXL7           SB:FARR 345 SE         90           Open 126274 E139T 47         345 126867 E13 TXL7           SB:FARR 345 SE         90           Open 126274 E139T 47         345 126870 E13 TXL7           Open 126277 PARRAGUT         345 126870 E13 TXL7           Open 146988 TD10305         345 148991 TD1030CT2         1           Open 146988 TD10305         345 148990 TD1030CT2         1           Open 146988 TD1030
	-119.8 -119.8 -116.2 -116.2 -116.2 -116.2 -63.9 -45.7 89.2 89.8 89.8 92.6 215.8 220.0 220.9	458.8 458.8 462.4 462.4 462.4 514.7 532.9 667.9 668.4 671.2 794.4 798.7	456.3 456.3 459.9 459.9 459.9 512.2 530.4 665.9 665.9 791.9 796.1	865.3 865.3 868.9 868.9 921.2 939.4 1074.4 1077.7 1200.9 1205.2	Interface 20 ABC-JK Interface 30 ABC-JK Interf	PAR-I PAR-I PAR-I PAR-I TABAR-I TABAR-I 5 147829 A9TOR345	345 345 345 345 345 345 345 345 345	0.15824 0.15924 0.07960 0.07960 0.07960 1 -0.91251 1 -0.94877 1 -0.50815 1 -1.00000 1 -0.49185 1 -0.50876 1 -0.50868 1 -0.50868 1 -0.49243 1 0.45372	19.0 19.0 9.3 9.3 9.3 -679.3 -664.4 -492.7 -531.2 -531.2 -591.2 -511.2 -509.1	0.0 0.0 0.0 0.0 0.0 0.0 621.0 621.0 621.0 538.0 621.0 621.0 621.0 621.0 621.0	Open 126274 E139T 47         345 126277 FARRAGUT           Open 126274 E139T 47         345 126869 E13 TM2           Open 126274 E139T 47         345 126869 E13 TM2           SB:FARR 345 9E         345 126869 E13 TM2           Open 126274 E139T 47         345 126879 ABTORN45           Open 126274 E139T 47         345 126879 ABTORN45           Open 126274 E139T 47         345 126869 E13 TM2           Open 126274 E139T 47         345 126869 E13 TM2           Open 126277 FARRAGUT         345 126869 E13 TM2           Open 126277 PARRAGUT         345 126278 B310 TM           Open 126277 PARRAGUT         345 126278 B310 TM           Open 126277 PARRAGUT         345 12689 E13 TM2           Open 126278 PARRAGUT         345 12699 E13 TM2           Open 126278 PARRAGUT         345 12699 E13 TM2           Open 126278 E139T 48         345 12699 TD1030072         345 12699 TD1030072           Open 126278 E139T 48         345 12699 TD10308T         345 12699 TD10308T           126278 E139T 48         345 126277 FARRAGUT           Open 126278 E139T 48         345 126277 FARRAGUT           Op

A.5	Energy Deliverability Capability With Astoria-Rainey 345 kV Cable

PSS(R)MUST 10.2 -- Managing and Utilizing System Transmission -- TUE, OCT 25 2011 14:20 <PCT111.0> 2010 NYISO CLASS YEAR ATRA-D REV 3 2015 SUMMER PEAK LOAD W/ 2009 ERAG/MMWG & PJM RTEP 09 UPDATE 

Contin.File C:\TDIQ305\Auxiliary files\CY2010\_ATRA\_A.CON

Exclud.File C:\TDIQ305\Auxiliary files\cy2009-2010contingencies.exc

From	To	Transfer Level	PCITC	EXPORT		Inter face-	lag.	LE From	LE To		Ckt	TDF	PreShift	Rating	Contingency
TDIQ305A	J EXP TDIA	3000.0	-466.0	-7.4	-8.8	519.9	-	Interface 24 Ontario-F	ich	$\overline{}$		-0.07789	-36.3		147829 ACTOR345 345 148988 TDIQ305 345 1 204
							Н			$\neg$					Open 147829 ASTOR345 345 148988 TDIQ305 345 1
			-464.0	-5.4	-6.8	521.9	П	Interface 24 Ontario-N	lich	$\neg$		-0.07790	-36.1	0.0	SB:AST 345 5 TDIQ305 & Q35M-48 969
															Open 126275 E13ST 48 345 126277 FARRAGUT 345 1
															Open 126275 E13ST 48 345 147829 ASTOR345 345 1
															Open 126275 E13ST 48 345 126499 T11MPT 138 11
															Open 126275 E13ST 48 345 126867 E13 TX10 T 138 10
															Open 147829 ASTOR345 345 148988 TDIQ305 345 1
			-463.7	-5.1	-6.5	522.2		Interface 24 Ontario-N	ich			-0.07790	-36.1	0.0	SB:AST_345_3 TDIQ305 & Q35L-B47 968
							$\vdash$								Open 126274 E13ST 47 345 126277 FARRAGUT 345 1
							ш			$\rightarrow$					Open 126274 E13ST 47 345 147829 ASTOR345 345 1
							ш			$\rightarrow$					Open 126274 E13ST 47 345 126869 E13 TX16 T 138 16
					_	_	Н			$\rightarrow$					Open 126274 E13ST 47 345 126870 E13 TX17 T 69.0 17
$\vdash$			45.5.0	1.0	0.0	520	Н	Turney and and W pa	D 7	$\rightarrow$		0.00000	252.2	0.0	Open 147829 ASTOR345 345 148988 TDIQ305 345 1
			-456.9	1.7	0.3	529	Н	Interface 20 ABC-JK_PR	K-1	$\rightarrow$		0.55321	252.7	0.0	SB:AST 345 5 TDIQ305 & Q35M-48 969 Open 126275 R13ST 48 345 126277 FARRAGUT 345 1
$\vdash$					-	_	Н			$\rightarrow$			_	_	
$\vdash$					-	-	$\vdash$			$\rightarrow$	_	-	_		Open 126275 E13ST 48 345 147829 ASTOR345 345 1 Open 126275 E13ST 48 345 126499 T11MPT 138 11
$\vdash$					_	_	Н			$\rightarrow$		_			Open 126275 E13ST 48 345 126867 E13 TX10 T 138 10
					-	_	Н			$\rightarrow$		_			Open 147829 ASTOR345 345 148988 TDIQ305 345 1
			-456.9	1.7	0.3	529	Н	Interface 20 ABC-JK PA	D_T	$\rightarrow$		0.55331	252.8	0.0	147829 ASTOR345 345 148988 TDI0305 345 1 204
_			-450.7	4.77	V.13	747	Н	Incorrace Ec Mac-ok_FA	1	$\overline{}$		0.00001	232.0	0.0	Open 147829 ASTOR345 345 148988 TDIO305 345 1
			-456.8	1.9	0.5	529.1		Interface 20 ABC-JK PA	P - T	$\overline{}$		0.55318	252.7	0.0	SB:AST 345 3 TDIQ305 & Q35L-B47 968
			-450.0	2	7.2	327.1	Н	Incertace to Abc-on_ra	I	$\rightarrow$		0.33310	232.7	V.V	Open 126274 E13ST 47 345 126277 FARRAGUT 345 1
							Н			$\rightarrow$					Open 126274 R13ST 47 345 147829 ASTOR345 345 1
						-	Н			$\overline{}$					Open 126274 E13ST 47 345 126869 E13 TX16 T 138 16
						_	Н			$\overline{}$					Open 126274 E13ST 47 345 126870 E13 TX17 T 69.0 17
						-	П			$\neg$					Open 147829 ASTOR345 345 148988 TDI0305 345 1
			251.5	710.1	708.7	1237	П	126274 E13ST 47 345	147829 ASTOR345	345	1	-0.50824	-493.2	621.0	126295 RAINEY 345 147829 ASTOR345 345 1 78
							П			$\neg$					Open 126295 RAINEY 345 147829 ASTOR345 345 1
			260.9	719.5	718.1	1247		126275 E13ST 48 345	147829 ASTOR345	345	1	-0.49176	-492.7	621.0	126295 RAINEY 345 147829 ASTOR345 345 1 78
															Open 126295 RAINEY 345 147829 ASTOR345 345 1
			362.0	820.6	819.2	1348		126295 RAINEY 345	147829 ASTOR345	345	1	-0.85183	-542.6	851.0	126274 E13ST 47 345 147829 ASTOR345 345 1 40
															Open 126274 E13ST 47 345 147829 ASTOR345 345 1
			365.5	824.1	822.7	1351		126295 RAINEY 345	147829 ASTOR345	345	1	-0.84318	-542.8	851.0	126275 E13ST 48 345 147829 ASTOR345 345 1 42
							ш			_					Open 126275 E13ST 48 345 147829 ASTOR345 345 1
			367.2	825.8	824.4	1353		126295 RAINEY 345	147829 ASTOR345	345	1	-0.84998	-538.9	851.0	SB:FARR 345 7E 952
					_	_	Н			$\rightarrow$					Open 126277 FARRAGUT 345 126590 GOMANUS 41SR 345 1 Open 126286 GOMANUSN 345 126590 GOMANUS 41SR 345 BY
$\vdash$					_	_	Н			$\rightarrow$	_				
					_	_	Н			$\rightarrow$					Open 126286 GOWANUSN 345 126427 GOWNUS1T 138 1 Open 126286 GOWANUSN 345 128251 GOWBAYON 345 1
$\vdash$					-	-	$\vdash$			$\rightarrow$	_				Open 126286 GOMANUSN 345 128251 GOMBAYON 345 1 Open 126283 GOTHLS N 345 126286 GOMANUSN 345 1
$\vdash$		$\vdash$			<del></del>	_	$\vdash$			$\rightarrow$					Open 126283 GOTHLS N 345 126286 GOMANUSN 345 1 Open 126274 E13ST 47 345 126277 FARRAGUT 345 1
$\vdash$					_	_	Н			$\rightarrow$			-		Open 126274 E13ST 47 345 126277 PARRAGOT 345 1
$\vdash$						_	$\vdash$			$\overline{}$		-			Open 126274 E13ST 47 345 126869 E13 TX16 T 138 16
						-	$\vdash$			$\rightarrow$					Open 126274 E13ST 47 345 126869 E13 TX16 T 138 16
			582.6	1041.2	1039.8	1569	Н	126274 E13ST 47 345	147829 ASTOR345	345	- 1	-0.50824	-324.9	621.0	AstoriasPS RAINEY 965
			20270	104116	2000.0	1,507	$\vdash$	2000.0000000000000000000000000000000000	TT. ORP MOTORDAD	545		27,300.64	-564.5	02270	Open 126295 RAINEY 345 147829 ASTOR345 345 1
							Н			$\overline{}$					Remove unit 1 from bus 148989 TDIQ30CT1 16.5 335.2 M
			591.9	1050.5	1049.1	1578	Н	126481 RAINEY8W 138	126562 8W DUM	138	1	-0.18118	-148.8	256.0	Base Case
			593.0	1051.6	1050.2	1579			126507 VERNON-W	138	1	0.18118	148.6		Base Case
			598.3	1056.9		1584			147829 ASTOR345	345	1	-0.49176	-326.8		AstoriaSPS RAINEY 965
															Open 126295 RAINEY 345 147829 ASTOR345 345 1
															Remove unit 1 from bus 148989 TDIQ30CT1 16.5 335.2 MA
			668.0		1125.2	1654			147829 ASTOR345	345	1	-0.75633	-277.8		Base Case
			721.8	1180.4	1179	1708		147829 ASTOR345 345	148988 TDIQ305	345	1	-1.00000	-457.2	1179.0	Base Case
			753.2	1211.9	1210.5	1739		148988 TDIQ305 345	148991 TDIQ30CT3	16.5	1	-0.28497	-35.3	250.0	GEN: 2 BRUCE Units B7&B8 535

19.2   2011   1110   779   4498   10001   241   1299   1000077   14   1   2   2419   2519   2510   2810							П									
Section   Sect							П									Remove unit 1 from bus 159620 BRUCE B GS-824.0 824.2 MM
			753.2	1211.9	1210.5	1739	1	48988 TDIQ305	345	148990 TDIQ30CT2	16.5	1 -	-0.28497	-35.3	250.0	GEN: 2 BRUCE Units B7&B8 535
1934   131							П									Remove unit 1 from bus 159619 BRUCE B GS-724.0 862.5 MM
The color of the							П									Remove unit 1 from bus 159620 BRUCE B GS-824.0 824.2 MG
The content of the			753.4	1212	1210.6	1739	1	48988 TDIQ305	345	148991 TDIQ30CT3	16.5	1 -	-0.28497	-35.3	250.0	SPS:250 OMS&Saranac x-trip 579
175.4   1252   1110.6   1757   1489/8 BEGG051   348   4459/5 TOGGOTT 16.5   0.24877   35.1   25.0   2008/11475-0000   1770.170.170.170.170.170.170.170.170.170							П									
1921   1921   1921   1922							П									Remove unit 3 from bus 121657 MILLSTONE G324.0 1276.1 MM
The color of the			753.4	1212	1210.6	1739	* 1	48988 TDIQ305	345	148991 TDIQ30CT3	16.5	1 -	-0.28497	-35.3	250.0	GEN:Millstone#3 & PV-20 OMS 544
Property   1971   1970   1970   1980   1980   1980   1480   1880   1480   1880   1480   1880   1480   1880   1480   1880   1880   1480   1880   1480   1880   1480   1880   1480   1880   1480   1880   1480   1880   1480   1880   1480   1880   1480   1880   1880   1480   148							П									Open 107400 SANDB115 115 107410 SB RCTOR 115 2
The content of the							П									Remove unit 3 from bus 121657 MILLSTONE G324.0 1276.1 MG
10.1   1.1			753.4	1212	1210.6	1739	1	48988 TDIQ305	345	148990 TDIQ30CT2	16.5	1 -	-0.28497	-35.3	250.0	GEN:MILLSTONE#3 542
The color of the							П									Remove unit 3 from bus 121657 MILLSTONE G324.0 1276.1 MF
Property			753.4	1212	1210.6	1739	* 1	48988 TDIQ305	345	148990 TDIQ30CT2	16.5	1 -	-0.28497	-35.3	250.0	SPS:250 OMS&Saranac x-trip 579
10   10   10   10   10   10   10   10							П									Open 107400 SANDB115 115 107410 SB RCTOR 115 2
733.6   1312.5   1231   1740   144948   TRIQUES   241   144994   TRIQUEST   14.5   1.0   14499   TRIQUEST   13.8   1.0   14499							П									Remove unit 3 from bus 121657 MILLSTONE_G324.0 1276.1 MP
22   23   23   13   13   13   13   15   15   15   1			753.8	1212.5	1211	1740	1	48988 TDIQ305	345	148991 TDIQ30CT3	16.5	1 -	-0.28497	-35.2	250.0	Base Case
Tell   1241   1240			753.8	1212.5	1211	1740	1	48988 TDIQ305			16.5	1 -	-0.28497	-35.2	250.0	Base Case
92.0 1341.5 1240.1 3761 14898 TRIQUOS 341 14899 TRIQUOST 13.0 1 -0.4335 -17.0 1300 1802.8 BROWN BRILLE PRIME BRIDGE SOCIETY 12.0 1 -0.4335 -17.0 1300 1802.8 BROWN BRILLE PRIME BRIDGE SOCIETY 13.0 1 -0.4335 -17.0 1300 1802.8 BROWN BRILLE PRIME BRIDGE SOCIETY 13.0 1 -0.4335 -17.0 1300 1802.8 BROWN BRILLE PRIME BRIDGE SOCIETY 13.0 1 -0.4335 -17.0 1300 1802.8 BROWN BRILLE PRIME BRIDGE SOCIETY 13.0 1 -0.4335 -17.0 1300 1802.8 BROWN BRILLE PRIME BRIDGE SOCIETY 13.0 1 -0.4335 -17.0 1300 1802.8 BROWN BRILLE PRIME BRIDGE SOCIETY 13.0 1 -0.4335 -17.0 1300 1802.8 BROWN BRILLE PRIME BRIDGE SOCIETY 13.0 1 -0.4335 -17.0 1300 1803.8 BROWN BRILLE PRIME BRIDGE SOCIETY 13.0 1 -0.4335 -17.0 1300 1803.8 BROWN BRILLE PRIME BRIDGE SOCIETY 13.0 1 -0.4335 -17.0 1300 1803.8 BROWN BRILLE PRIME BRIDGE SOCIETY 13.0 1 -0.4335 -17.0 1300 1803.8 BROWN BRILLE PRIME BRIDGE SOCIETY 13.0 1 -0.4335 -17.0 1300 1803.8 BROWN BRILLE PRIME BRIDGE SOCIETY 13.0 1 -0.4335 -17.0 1300 1803.8 BROWN BRILLE PRIME BRIDGE SOCIETY 13.0 1 -0.4335 -17.0 1300 1803.8 BROWN BRILLE PRIME BRIDGE SOCIETY 13.0 BROWN BRIDGE SOCIETY 13.0 BROW			782.8	1241.5	1240.1	1769	1	48988 TDIQ305	345	148992 TDIQ30ST1	13.8	1 -	-0.14335	-17.8	130.0	GEN: 2 BRUCE Units B7&B8 535
17.0   1241.5   1261.0   1760.0   1261.0   1260.0   126							П									Remove unit 1 from bus 159619 BRUCE B GS-724.0 862.5 Mg
							П									Remove unit 1 from bus 159620 BRUCE B GS-824.0 824.2 MM
West   1241.5   1240   1750   144998 WINGOOS   345   144995 WINGOOS   346   344995 WINGOO			782.8	1241.5	1240.1	1769	1	48988 TDIQ305	345	148994 TDIQ30ST3	13.8	1 -	-0.14335	-17.8	130.0	GEN: 2 BRUCE Units B7&B8 535
792   1211   1340   1798   14898   100905   34   14898   100905   24   14999   100905   23   1   -0.14338   -1.74   130   0.0001   2.8005   1011   1700   1011   1000   1021   1000   125   100   125   100   125   100   125   100   125   100   125   100   125   100   125   100   125   100   125   100   125   100   125   125   100   125   125   100   125   12							П									Remove unit 1 from bus 159619 BRUCE B GS-724.0 862.5 MM
Peach   Peac							П									Remove unit 1 from bus 159620 BRUCE B GS-824.0 824.2 MM
73 0 1241 6 1240 2 1749 1 148988 TD10305 345 148993 TD10305T2 13.8 1 -0.14335 -17.8 130 OBBINITATIONES 2014 0 1745 148988 TD10305 345 148994 TD10305T3 13.8 1 -0.14335 -17.8 130 OBBINITATIONES 2014 0 1745 148988 TD10305 345 148994 TD10305T1 13.8 1 -0.14335 -17.8 130 OBBINITATIONES 2014 0 1745 148988 TD10305 345 148993 TD10305T1 13.8 1 -0.14335 -17.8 130 OBBINITATIONES 2014 0 1745 148988 TD10305 345 148993 TD10305T1 13.8 1 -0.14335 -17.8 130 OBBINITATIONES 2014 0 1745 148988 TD10305 345 148993 TD10305T2 13.8 1 -0.14335 -17.8 130 OBBINITATIONES 2014 0 1745 148988 TD10305T2 13.8 1 -0.14335 -17.8 130 OBBINITATIONES 2014 0 1875 174 174 174 174 174 174 174 174 174 174			782.8	1241.5	1240.1	1769	1	48988 TDIQ305	345	148993 TDIQ30ST2	13.8	1 -	-0.14335	-17.8	130.0	
Table   1241   6   1242   1747   148988   TD10305   345   348994   TD1030572   13.6   1   0.14335   17.6   330   09BHMILLENOMBRS   15.7   MILLENOMBR 0024_0   1774_1   18.7   17.6   14.8   17.6   17.7   17.5   14.8   17.6   17.5   1							П									Remove unit 1 from bus 159619 BRUCE B GS-724.0 862.5 MM
Page							П									Remove unit 1 from bus 159620 BRUCE B GS-824.0 824.2 MG
783.0   3241.6   1340.2   1769   14898 TDIQOOS   345   14899 TDIQOOST   31.0			783.0	1241.6	1240.2	1769	1	48988 TDIQ305	345	148993 TDIQ30ST2	13.8	1 -	-0.14335	-17.8	130.0	GEN: MILLSTONE#3 542
Post 107400 EMB011							$\vdash$									Remove unit 3 from bus 121657 MILLSTONE G324.0 1276.1 Mg
Post 107400 EMB011			783.0	1241.6	1240.2	1769	1	48988 TDIQ305	345	148994 TDIQ30ST3	13.8	1 -	-0.14335	-17.8	130.0	SPS:250 OMS&Saranac x-trip 579
783.0 1241.6 1240.2 1769 144988 TDIQSOS 345 148992 TDIQSOSTI 13.8 1 0.14335 -17.8 130.0 SERCISO OMEGRAFARDO X-TEIP 577  783.0 1241.6 1240.2 1769 - 146988 TDIQSOS 345 148993 TDIQSOST2 13.8 1 0.14335 -17.8 130.0 SERCISO TORON 13.8 TORON 13.7 STORE DAY 12145 NULLETONE 0324.0 1276.1 M FROM 13.8 TORON							$\vdash$									
783.0 1241.6 1240.2 1769 144988 TDIQSOS 345 148992 TDIQSOSTI 13.8 1 0.14335 -17.8 130.0 SERCISO OMEGRAFARDO X-TEIP 577  783.0 1241.6 1240.2 1769 - 146988 TDIQSOS 345 148993 TDIQSOST2 13.8 1 0.14335 -17.8 130.0 SERCISO TORON 13.8 TORON 13.7 STORE DAY 12145 NULLETONE 0324.0 1276.1 M FROM 13.8 TORON							$\vdash$									Remove unit 3 from bus 121657 MILLSTONE G324.0 1276.1 MG
1			783.0	1241.6	1240.2	1769	1	48988 TDIQ305	345	148992 TDIQ30ST1	13.8	1 -	-0.14335	-17.8	130.0	
1							$\vdash$									Open 107400 SANDB115 115 107410 SB RCTOR 115 2
783   1241   1240   2   1769   14898   TDIQSOS   345   148993   TDIQSOST   13   8   1   -0.14335   -17   8   130   -0.081MILISTONBRS & PY-20   08E   544   14898   TDIQSOST   13   8   1   -0.14335   -17   130   08EMILISTONBRS & PY-20   08E   15   174							$\vdash$									
Comparison of the Comparison			783.0	1241.6	1240.2	1769	* 1	48988 TDIQ305	345	148993 TDIQ30ST2	13.8	1 -	-0.14335	-17.8	130.0	
1241.6   1240.2   1769   146986 TDIQ305   345   146992 TDIQ306T1   13.6   1 -0.14335   -17.6   130.0   GENTHLLEFORME 3034.0   1276.1   1470   1276.1   1470   147							$\vdash$			_						
Teach   Teac							$\vdash$									
783.0   1241.6   1240.2   1769   148988 TDIQ305   345   148994 TDIQ30573   13.8   1 - 0.14335   -17.8   130.0   3081Millstones3 & FV-20 ONS   544   1242   1240.6   1769   148988 TDIQ305   345   148992 TDIQ30573   13.8   1 - 0.14335   -17.7   130.0   8ase Case   783.4   1242   1240.6   1769   148988 TDIQ305   345   148994 TDIQ30573   13.8   1 - 0.14335   -17.7   130.0   8ase Case   783.4   1242   1240.6   1769   148988 TDIQ305   345   148994 TDIQ30572   13.8   1 - 0.14335   -17.7   130.0   8ase Case   783.4   1242   1240.6   1769   148988 TDIQ305   345   148994 TDIQ30572   13.8   1 - 0.14335   -17.7   130.0   8ase Case   783.4   1242   1240.6   1769   148988 TDIQ305   345   148994 TDIQ30572   13.8   1 - 0.14335   -17.7   130.0   8ase Case   783.4   1242   1240.6   1260   126			783.0	1241.6	1240.2	1769	* 1	48988 TDIQ305	345	148992 TDIQ30ST1	13.8	1 -	-0.14335	-17.8	130.0	GEN: MILLSTONE#3 542
Spen 107400 SANDBIIS 115 107410 SB ECTOR 1152							$\vdash$	-		-						
Spen 107400 SANDBIIS 115 107410 SB ECTOR 1152			783.0	1241.6	1240.2	1769	* 1	48988 TDI0305	345	148994 TDI030ST3	13.8	1 -	-0.14335	-17.8	130.0	GEN:Millstone#3 & PV-20 OMS 544
783.4   1242   1240.6   1769   148988 TD1[005   345   148997 TD1[030671   13.8   1 - 0.14335   -17.7   130.0   Base Case							$\vdash$									
783.4   1242   1240.6   1769   148988 TD1[005   345   148997 TD1[030671   13.8   1 - 0.14335   -17.7   130.0   Base Case							$\vdash$									Remove unit 3 from bus 121657 MILLSTONE G324.0 1276.1 MW
783.4 1242   1240.6 1759   14898 TDIQ305 345   14899 TDIQ30572 13.8   1-0.14335 -17.7   130.0 Base Case   783.4   1242   1240.6   1759   14898 TDIQ30572 13.8   1-0.14335 -17.7   130.0 Base Case   783.4   1247   1240   1240   1240   12525 RAINEY 345   12552 8W DVM 138   8.0   19007   100.2   256.0 Base Case   783.4   1241   1241   12525 RAINEY 345   12552 8W DVM 138   1.0.16118   -215.4   372.0 Base Case   783.4   12424   1241   1241   12525 RAINEY 345   12552 8W DVM 138   1.0.16118   -215.4   372.0 Base Case   783.4   12424   1241   1242   1241   12			783.4	1242	1240.6	1769	1	48988 TDI0305	345	148992 TDI030ST1	13.8	1 -	-0.14335	-17.7	130.0	
1783.4   1242   1240.6   1769   148988   TDIQ305   345   148998   TDIQ30572   13.8   1 -0.14335   -17.7   130.0   Base Case			783.4	1242	1240.6	1769					13.8	1 -	-0.14335	-17.7	130.0	Base Case
819.8 1278.4 1277 1806 126295 RAINEY 345 126562 8W DDM 138 8 0.19007 100.2 256.0 Base Case  864.2 1322.8 1321.4 1850 126481 RAINEY W 138 126562 8W DDM 138 1 -0.18118 -215.4 372.0 Base Case  962.1 1322.8 1321.4 1850 126481 RAINEY W 138 126562 8W DDM 138 1 -0.18118 -215.4 372.0 Base Case  962.1 1322.8 1321.4 1850 126482 RAINEY W 138 126562 8W DDM 138 1 -0.18118 -215.4 372.0 Base Case  962.1 1322.8 1321.4 1850 126482 RAINEY W 138 126562 8W DDM 138 1 -0.18118 218.4 10.18118 126283 COMMUSE 1 18 126482 COMMUSE 1 18 126492 COMM									345						130.0	
864.2   1322.8   1321.4   1650   126481 RAINEYM   138   126562 8W DUN   138   1 -0.18118   -215.4   372.0   38.0   Greenwood 138 4   16429   COMMUNIST   138 1   138 1   1650   16429   16428   16429   1642			819.8	1278.4	1277	1806			345	126562 8W DUM	138	8	0.19007	100.2	256.0	Base Case
Spen 126287 OGNANUSS 345 126429 OGNINUSZT 138 114			864.2	1322.8	1321.4	1850						1 -	-0.18118	-215.4		
Open 126428 CONNINSER 138 126434 GERNHOOD 138 1   A 1.0 MB   Remove unit 1 from bus 126257 GCWGTTA 13.8 43.0 MB   Remove unit 1 from bus 126259 CCWGTA 13.8 43.0 MB   Remove unit 1 from bus 126259 CCWGTA 13.8 43.0 MB   Remove unit 1 from bus 126259 CCWGTA 13.8 43.5 MB   Remove unit 1 from bus 126259 CCWGTA 13.8 44.5 MB   Remove unit 1 from bus 126259 CCWGTA 13.8 44.5 MB   Remove unit 1 from bus 126259 CCWGTA 13.8 44.5 MB   Remove unit 1 from bus 126259 CCWGTA 13.8 44.5 MB   Remove unit 1 from bus 126259 CCWGTA 13.8 44.5 MB   Remove unit 1 from bus 126259 CCWGTA 13.8 44.5 MB   Remove unit 1 from bus 126259 CCWGTA 13.8 44.5 MB   Remove unit 1 from bus 126259 CCWGTA 13.8 44.5 MB   Remove unit 1 from bus 126259 CCWGTA 13.8 44.5 MB   Remove unit 1 from bus 126259 CCWGTA 13.8 44.5 MB   Remove unit 1 from bus 126259 CCWGTA 13.8 41.0 MB   Remove unit 1 from bus 126259 CCWGTA 13.8 41.0 MB   Remove unit 1 from bus 126259 CCWGTA 13.8 41.0 MB   Remove unit 1 from bus 126259 CCWGTA 13.8 41.0 MB   Remove unit 1 from bus 126259 CCWGTA 13.8 41.0 MB   Remove unit 1 from bus 126259 CCWGTA 13.8 41.0 MB   Remove unit 1 from bus 126259 CCWGTA 13.8 41.0 MB   Remove unit 1 from bus 126259 CCWGTA 13.8 41.0 MB   Remove unit 1 from bus 126259 CCWGTA 13.8 41.0 MB   Remove unit 1 from bus 126259 CCWGTA 13.8 43.5 MB   Remove unit 1 from bus 126259 CCWGTA 13.8 43.5 MB   Remove unit 1 from bus 126259 CCWGTA 13.8 43.5 MB   Remove unit 1 from bus 126259 CCWGTA 13.8 43.5 MB   REMOVE unit 1 from bus 126259 CCWGTA 13.8 43.5 MB   REMOVE unit 1 from bus 126259 CCWGTA 13.8 43.5 MB   REMOVE unit 1 from bus 126259 CCWGTA 13.8 44.3 MB   REMOVE unit 1 from bus 126259 CCWGTA 13.8 44.3 MB   REMOVE unit 1 from bus 126259 CCWGTA 13.8 44.3 MB   REMOVE unit 1 from bus 126259 CCWGTA 13.8 44.3 MB   REMOVE unit 1 from bus 126259 CCWGTA 13.8 44.3 MB   REMOVE unit 1 from bus 126259 CCWGTA 13.8 44.3 MB   REMOVE unit 1 from bus 126259 CCWGTA 13.8 44.3 MB   REMOVE unit 1 from bus 126250 CCWGTA 13.8 44.3 MB   REMOVE unit 1 from bus 126250 CCWGTA 13.8 44.3 MB   REMOVE							$\vdash$									
Open 126428 CONNINSER 138 126434 GERNHOOD 138 1   A 1.0 MB   Remove unit 1 from bus 126257 GCWGTTA 13.8 43.0 MB   Remove unit 1 from bus 126259 CCWGTA 13.8 43.0 MB   Remove unit 1 from bus 126259 CCWGTA 13.8 43.0 MB   Remove unit 1 from bus 126259 CCWGTA 13.8 43.5 MB   Remove unit 1 from bus 126259 CCWGTA 13.8 44.5 MB   Remove unit 1 from bus 126259 CCWGTA 13.8 44.5 MB   Remove unit 1 from bus 126259 CCWGTA 13.8 44.5 MB   Remove unit 1 from bus 126259 CCWGTA 13.8 44.5 MB   Remove unit 1 from bus 126259 CCWGTA 13.8 44.5 MB   Remove unit 1 from bus 126259 CCWGTA 13.8 44.5 MB   Remove unit 1 from bus 126259 CCWGTA 13.8 44.5 MB   Remove unit 1 from bus 126259 CCWGTA 13.8 44.5 MB   Remove unit 1 from bus 126259 CCWGTA 13.8 44.5 MB   Remove unit 1 from bus 126259 CCWGTA 13.8 44.5 MB   Remove unit 1 from bus 126259 CCWGTA 13.8 41.0 MB   Remove unit 1 from bus 126259 CCWGTA 13.8 41.0 MB   Remove unit 1 from bus 126259 CCWGTA 13.8 41.0 MB   Remove unit 1 from bus 126259 CCWGTA 13.8 41.0 MB   Remove unit 1 from bus 126259 CCWGTA 13.8 41.0 MB   Remove unit 1 from bus 126259 CCWGTA 13.8 41.0 MB   Remove unit 1 from bus 126259 CCWGTA 13.8 41.0 MB   Remove unit 1 from bus 126259 CCWGTA 13.8 41.0 MB   Remove unit 1 from bus 126259 CCWGTA 13.8 41.0 MB   Remove unit 1 from bus 126259 CCWGTA 13.8 43.5 MB   Remove unit 1 from bus 126259 CCWGTA 13.8 43.5 MB   Remove unit 1 from bus 126259 CCWGTA 13.8 43.5 MB   Remove unit 1 from bus 126259 CCWGTA 13.8 43.5 MB   REMOVE unit 1 from bus 126259 CCWGTA 13.8 43.5 MB   REMOVE unit 1 from bus 126259 CCWGTA 13.8 43.5 MB   REMOVE unit 1 from bus 126259 CCWGTA 13.8 44.3 MB   REMOVE unit 1 from bus 126259 CCWGTA 13.8 44.3 MB   REMOVE unit 1 from bus 126259 CCWGTA 13.8 44.3 MB   REMOVE unit 1 from bus 126259 CCWGTA 13.8 44.3 MB   REMOVE unit 1 from bus 126259 CCWGTA 13.8 44.3 MB   REMOVE unit 1 from bus 126259 CCWGTA 13.8 44.3 MB   REMOVE unit 1 from bus 126259 CCWGTA 13.8 44.3 MB   REMOVE unit 1 from bus 126250 CCWGTA 13.8 44.3 MB   REMOVE unit 1 from bus 126250 CCWGTA 13.8 44.3 MB   REMOVE							$\vdash$					-				Open 126428 GOWNUS2R 138 126429 GOWNUS2T 138 1
Remove unit 1 from bus 126257 COMCTIA 13.8 41.0 Mg Remove unit 1 from bus 126257 COMCTIA 13.8 41.0 Mg Remove unit 1 from bus 126258 COMCTIA 13.8 42.5 Mg Remove unit 1 from bus 126258 COMCTIA 13.8 42.5 Mg Remove unit 1 from bus 126268 COMCTIA 13.8 42.5 Mg Remove unit 1 from bus 126268 COMCTIA 13.8 42.5 Mg Remove unit 1 from bus 126266 COMCTIA 13.8 42.5 Mg Remove unit 1 from bus 126266 COMCTIA 13.8 43.5 Mg Remove unit 1 from bus 126266 COMCTIA 13.8 43.5 Mg Remove unit 1 from bus 126266 COMCTIA 13.8 43.5 Mg Remove unit 1 from bus 126266 COMCTIA 13.8 43.5 Mg Remove unit 1 from bus 126267 COMCTIA 13.8 43.5 Mg Remove unit 1 from bus 126267 COMCTIA 13.8 43.5 Mg Remove unit 1 from bus 126267 COMCTIA 13.8 43.5 Mg Remove unit 1 from bus 126267 COMCTIA 13.8 43.5 Mg Remove unit 1 from bus 126267 COMCTIA 13.8 44.0 Mg Remove unit 1 from bus 126267 COMCTIA 13.8 44.0 Mg Remove unit 1 from bus 126267 COMCTIA 13.8 44.0 Mg Remove unit 1 from bus 126267 COMCTIA 13.8 44.0 Mg Remove unit 1 from bus 126267 COMCTIA 13.8 44.0 Mg Remove unit 1 from bus 126268 COMCTIA 13.8 44.0 Mg Remove unit 1 from bus 126268 COMCTIA 13.8 44.0 Mg Remove unit 1 from bus 126268 COMCTIA 13.8 44.0 Mg Remove unit 1 from bus 126268 COMCTIA 13.8 44.0 Mg Remove unit 1 from bus 126268 COMCTIA 13.8 44.0 Mg Remove unit 1 from bus 126268 COMCTIA 13.8 44.0 Mg Remove unit 1 from bus 126268 COMCTIA 13.8 44.3 Mg Remove unit 1 from bus 126268 COMCTIA 13.8 44.3 Mg Remove unit 1 from bus 126268 COMCTIA 13.8 44.3 Mg Remove unit 1 from bus 126268 COMCTIA 13.8 44.3 Mg Remove unit 1 from bus 126268 COMCTIA 13.8 44.3 Mg Remove unit 1 from bus 126268 COMCTIA 13.8 44.3 Mg Remove unit 1 from bus 126268 COMCTIA 13.8 44.3 Mg Remove unit 1 from bus 126268 COMCTIA 13.8 44.3 Mg Remove unit 1 from bus 126268 COMCTIA 13.8 44.3 Mg Remove unit 1 from bus 126268 COMCTIA 13.8 44.3 Mg Remove unit 1 from bus 126268 COMCTIA 13.8 44.3 Mg Remove unit 1 from bus 126268 COMCTIA 13.8 44.3 Mg Remove unit 1 from bus 126268 COMCTIA 13.8 44.3 Mg Remove unit 1 from bus 126268 COMCTIA 13.8 44.3 Mg Remove							$\vdash$					-				
Remove unit 1 from bus 126258 CGMCTAX 13.8 42.5 MW							$\vdash$					-				
Remove unit 1 from bus 126258 CGMCTAX 13.8 42.5 MW							$\vdash$					-				Remove unit 1 from bus 126259 GOWGTIB 13.8 39.7 MW
Remove unit 1 from bus 126289 CGMCT3B 13.8 42.9 MW Remove unit 1 from bus 126289 CGMCT3B 13.8 42.9 MW Remove unit 1 from bus 126309 NARGT2A 13.8 43.6 MW Remove unit 1 from bus 126309 NARGT2A 13.8 43.6 MW Remove unit 1 from bus 126309 NARGT2A 13.8 43.6 MW Remove unit 1 from bus 126309 NARGT2A 13.8 44.3 MW Remove unit 1 from bus 126309 NARGT2A 13.8 44.3 MW Remove unit 1 from bus 126309 NARGT2A 13.8 44.3 MW Remove unit 1 from bus 126309 NARGT2B 13.8 44.3 MW Remove unit 1 from bus 126309 NARGT2A 13.8 44.3 MW Remove unit 1 from bus 126309 NARGT2A 13.8 44.3 MW Remove unit 1 from bus 126309 NARGT2B 13.8 44.3 MW Remove				i			$\vdash$									
Remove unit 1 from bus 12666 Q3613D PIER 13.8 64.0 NM			1		1		$\vdash$									
Remove unit 1 from bus 126309 NAREGT2A 13.8 43.5 Mm							$\vdash$									
Remove unit 1 from bus 126309 NAREGT2B 13.8 44.3 NM			1		1		$\vdash$					-				
865.3   1323.9   1322.5   1851   126481 RAINEY8M   138   126507 VERNON-W   138   1   0.18118   215.2   372.0   SB-GTeenwood138 4N   9622   960MTUSZT   138   1   138				<b>—</b>	1		$\vdash$					-	-			
Open 126287 GOMANUSE 345 126429 GOMUGEZT 138 1   Open 126287 GOMANUSE 345 126429 GOMUGEZT 138 1   Open 126428 GOMIGEZT 138 1   Open 126428 GOMIGEZ 138 126439 GOMIGEZ 138 1   Open 126428 GOMIGEZ 138 126434 GRIMWOOD 138 1			865.3	1323 9	1322 5	1851	1 1	26481 RAINEYAW	138	126507 VERNON-W	138	1	0.18118	215 2	372.0	
Open 126428 GORNUSZR 138 126429 GORNUSZR 138 126432 GORNUSZR 138 126434 GRENWOOD 138 1				222273		1001	<del>   </del>		220		220	- 1		22.74	2,2,0	
Open 126426 COMNUSTR 138 126434 GRENNOOD 138 1							$\vdash$						-			
Remove unit 1 from bus 126257 GCMCTIA 13.8 41.0 NM Benove unit 1 from bus 126259 GCMCTIA 13.8 43.7 NM Benove unit 1 from bus 126259 GCMCTIA 13.8 42.5 NM Benove unit 1 from bus 126258 GCMCTIA 13.8 42.5 NM Benove unit 1 from bus 126258 GCMCTIA 13.8 42.5 NM Benove unit 1 from bus 126269 GCMCTIA 13.8 42.5 NM Benove unit 1 from bus 126269 GCMCTIA 13.8 42.5 NM Benove unit 1 from bus 126269 GCMCTIA 13.8 42.5 NM Benove unit 1 from bus 126269 GCMCTIA 13.8 43.5 NM Benove unit 1 from bus 126360 RMRGTZA 13.8 43.5 NM Benove unit 1 from bus 126360 RMRGTZA 13.8 44.5 NM Benove unit 1 from bus 126360 RMRGTZA 13.8 44.5 NM Benove unit 1 from bus 126360 RMRGTZA 13.8 126427 GCMCDIST 13.8 1 Benove unit 1 from bus 126367 RMRGTZA 13.8 126427 GCMCDIST 13.8 126428 GCMCDIST 13.8 44.6 NM Benove unit 1 from bus 126237 GCMCTZA 13.8 44.6 NM Benove unit 1 from bus 126238 GCMCTZB 13.8 44.6 NM Benove unit 1 from bus 126238 GCMCTZB 13.8 44.6 NM				<b>-</b>	<del>                                     </del>	<del>                                     </del>	+					-+	-+			
Remove unit 1 from bus 12c259 CCMGTIB 13.8 39.7 Mm				<b>-</b>		_	$\vdash$					-	-+			
Remove unit 1 from bus 12c25g CGMCTAA 13.8 42.5 NM				<del>                                     </del>	<del>                                     </del>		+					-	-+			
Remove unit 1 from bus 126289 CGMCT3B 13.8 42.9 MM   Remove unit 1 from bus 126289 CGMCT3B 13.8 42.9 MM   Remove unit 1 from bus 126666 Q26150 PIER 13.8 64.0 MM   Remove unit 1 from bus 126308 NARGT2A 13.8 43.6 MM   Remove unit 1 from bus 126308 NARGT2A 13.8 44.6 MM   Remove unit 1 from bus 126309 NARGT2B 13.8 44.3 MM   Remove unit 1 from bus 126309 NARGT2B 13.8 44.3 MM   Remove unit 1 from bus 126309 NARGT2B 13.8 44.3 MM   Popen 126426 CGMNUSIR 138 126434 GERMADOD 138 1   Popen 126426 CGMNUSIR 138 126437 CGMNUSIT 138 1   Popen 126426 CGMNUSIR 138 126438 CGMNUSIR 138				<b>-</b>	1		+					-+	-+			
Remove unit 1 from bus 12866 0 CASISO PIER 13.8 64.0 NM   Remove unit 1 from bus 12866 0 CASISO PIER 13.8 64.0 NM   Remove unit 1 from bus 12866 0 CASISO PIER 13.8 64.0 NM   Remove unit 1 from bus 12867 0 NAREGTEB 13.8 44.3 NM   Remove unit 1 from bus 12867 0 NAREGTEB 13.8 44.3 NM   Remove unit 1 from bus 12867 0 NAREGTEB 13.8 44.3 NM   Open 128426 COMMUSIR 138 128437 ODMINUSIT 138 1   Open 128426 ODMINUSIR 138 128437 ODMINUSIT 138 1   Open 128426 ODMINUSIR 138 128437 ODMINUSIT 138 1   Open 128426 ODMINUSIR 138 128437 ODMINUSIT 138 1   Open 128427 ODMINUSIT 138 1   Open 128427 ODMINUSIT 138 1 NR   Op	$\vdash$			<del></del>	-	_	┯					-				
Remove unit 1 from bus 126308 NAREGT2A 13.8 43.6 MM	<b>—</b>	<b>—</b>	 <b>-</b>	<b>-</b>	-	_	$\vdash$					-+	-+			
Remove unit 1 from bis 126309 NAREGTEB 13.8 44.3 NM	<b>—</b>		-	<del>                                     </del>	-	<del></del>	$\vdash$					-+	$\rightarrow$			
Before   B	<b>—</b>			<b>—</b>	-	$\vdash$	+				-+	-+	$\rightarrow$			
Open 126426 COMNUSIR 138 126437 GRENWOOD 138 1	-		067.0	1005 5	1224.2	1050	<del>   </del> .	OCADA DE INDUCTO	120	12CEC2 ON DUM	120	- 1	0.10110	214.2	272.0	
Open 126426 GOWNUSIR 138 126427 GOWNUSIT 138 1			867.0	1325.6	1324.2	1853	$+$ $+$ $1^{1}$	26481 RAINEY8W	138	126562 8W DUM	138	1 -	-v.18118	-214.9	372.0	
Open 126286 GOMANUSN 345 126427 GOMUSIT 138 1   Remove unit 1 from bus 12627 GOMUSIT 13.8 44.6 NM   Remove unit 1 from bus 126238 GOMOTEM 13.8 44.3 NM   Remove unit 1 from bus 126238 GOMOTEM 13.8 44.3 NM   Remove unit 1 from bus 126238 GOMOTEM 13.8 44.3 NM   Remove unit 1 from bus 126238 GOMOTEM 13.8 44.3 NM   Remove unit 1 from bus 126238 GOMOTEM 13.8 44.3 NM   Remove unit 1 from bus 126238 GOMOTEM 13.8 44.3 NM   Remove unit 1 from bus 126238 GOMOTEM 13.8 44.3 NM   Remove unit 1 from bus 126238 GOMOTEM 13.8 1   Remove unit 1 from bus 126238 GOMOTEM 13.8 44.3 NM   Remove unit 1 from bus 126238 GOMOTEM 13.8				<b>—</b>			₩					_	$\rightarrow$			
Remove unit 1 from bus 126271 GOMGT2A 13.8 44.6 MM   Remove unit 1 from bus 126328 GOMGT2B 13.8 44.3 MM   Remove unit 1 from bus 126328 GOMGT2B 13.8 44.3 MM   Remove unit 1 from bus 126328 GOMGT2B 13.8 44.3 MM   Remove unit 1 from bus 126328 GOMGT2B 13.8 44.3 MM   Remove unit 1 from bus 126328 GOMGT2B 13.8 44.5 MM   Remove unit 1 from bus 126328 GOMGT2B 13.8 44.6 MM   Remove unit 1 from bus 126328 GOMGT2B 13.8 44.6 MM   Remove unit 1 from bus 126328 GOMGT2B 13.8 44.6 MM   Remove unit 1 from bus 126328 GOMGT2B 13.8 44.6 MM   Remove unit 1 from bus 126328 GOMGT2B 13.8 44.6 MM   Remove unit 1 from bus 126328 GOMGT2B 13.8 44.6 MM   Remove unit 1 from bus 126328 GOMGT2B 13.8 44.6 MM   Remove unit 1 from bus 126328 GOMGT2B 13.8 44.6 MM   Remove unit 1 from bus 126328 GOMGT2B 13.8 44.3 MM   Remove unit 1 from bus 126328 GOMGT2B 13.8 44.3 MM   Remove unit 1 from bus 126328 GOMGT2B 13.8 44.3 MM   Remove unit 1 from bus 126328 GOMGT2B 13.8 44.3 MM   Remove unit 1 from bus 126328 GOMGT2B 13.8 44.3 MM   Remove unit 1 from bus 126328 GOMGT2B 13.8 44.3 MM   Remove unit 1 from bus 126328 GOMGT2B 13.8 44.3 MM   Remove unit 1 from bus 126328 GOMGT2B 13.8 44.3 MM   Remove unit 1 from bus 126328 GOMGT2B 13.8 44.3 MM   Remove unit 1 from bus 126328 GOMGT2B 13.8 44.3 MM   Remove unit 1 from bus 126328 GOMGT2B 13.8 44.3 MM   Remove unit 1 from bus 126328 GOMGT2B 13.8 44.3 MM   Remove unit 1 from bus 126328 GOMGT2B 13.8 44.3 MM   Remove unit 1 from bus 126328 GOMGT2B 13.8 44.3 MM   Remove unit 1 from bus 126328 GOMGT2B 13.8 44.6 MM   Remove unit 1 from bus 126328 GOMGT2B 13.8 44.6 MM   Remove unit 1 from bus 126328 GOMGT2B 13.8 44.6 MM   Remove unit 1 from bus 126328 GOMGT2B 13.8 44.6 MM   Remove unit 1 from bus 126328 GOMGT2B 13.8 44.6 MM   Remove unit 1 from bus 126328 GOMGT2B 13.8 44.6 MM   Remove unit 1 from bus 126328 GOMGT2B 13.8 44.6 MM   Remove unit 1 from bus 126328 GOMGT2B 13.8 44.6 MM   Remove unit 1 from bus 126328 GOMGT2B 13.8 44.6 MM   Remove unit 1 from bus 126328 GOMGT2B 13.8 MM   Remove unit 1 from bus 126328 GOMGT	<b>——</b>		 	<b>—</b>			$\vdash$									
Remove unit 1 from bus 126328 GOMGT2B 13.8 44.3 MM				<b>—</b>		_	₩									
		_		<del></del>	-	⊢	$\vdash$						$\rightarrow$			
	-			<b></b>	-	_	$\vdash$									
							ш									Remove unit i from bus 126276 GOWGT4A 13.8 40.0 MW

PSS®MUST Analysis Results		



# **Generation Changes for 1,578 MW Astoria** 345 kV Export

		Dispa	tch for Cap	acity	Disp	atch for En	ergy	Net
Bus# BusName	KV P	gen '	NewGen	Change	Pgen			Difference
126251 ER G6	13.2	78.1	71.7	-6.4	78.1	69.7	-8.4	-2.0
126252 ER G7	13.2	107.4	98.6	-8.8	107.4	95.9	-11.5	-2.7
126254 AWGT1	13.8	28.2	25.9	-2.3	28.2	28.2		2.3
126255 AWGT2	13.8	27.2	24.9	-2.2	27.2	27.2		2.3
126257 GOWGT1A	13.8	41.0	37.6	-3.4	41.0	36.6	-4.4	-1.0
126258 GOWGT3A	13.8	42.5	39.0	-3.5	42.5	38.0	-4.6	-1.0
126259 GOWGT1B	13.8	39.7	36.4	-3.3	39.7	35.4	-4.3	-1.0
126265 COGNTECH	345	300.0	270.7	-29.3	300.0	261.7	-38.3	-9.0
126271 GOWGT2A	13.8	44.6	40.9	-3.7	44.6	39.8	-4.8	-1.1
126276 GOWGT4A	13.8	40.0	36.7	-3.3	40.0	35.7	-4.3	-1.0
126289 GOWGT3B	13.8	42.9	39.3	-3.5	42.9	38.3	-4.6	-1.0
126302 NARRGT1A	13.8	47.1	43.2	-3.9	47.1	42.1	-5.1	-1.1
126303 NARRGT1B	13.8	44.8	41.1	-3.7	44.8	40.0	-4.8	-1.1
126308 NARRGT2A	13.8	43.6	40.0	-3.6	43.6	38.9	-4.7	-1.1
126309 NARRGT2B	13.8	44.3	40.7	-3.6	44.3	39.6	-4.8	-1.1
126311 ASTEGT2A	13.8	48.6	44.6	-4.0	48.6	43.4	-5.2	-1.2
126312 ASTEGT2B	13.8	47.8	43.9	-3.9	47.8	42.7	-5.1	-1.2
126322 ASTEGT3A	13.8	49.3	45.2	-4.0	49.3	44.0	-5.3	-1.2
126323 ASTEGT3B	13.8	50.0	45.9	-4.1	50.0	44.7	-5.4	-1.2
126325 ASTEGT4A	13.8	48.9	44.8	-4.0	48.9	43.6	<b>-</b> 5.2	-1.2
126326 ASTEGT4B	13.8	48.8	44.8	-4.0	48.8	43.6	-5.2	-1.2
126328 GOWGT2B	13.8	44.3	40.7	-3.6	44.3	39.6	-4.8	-1.1
126329 GOWGT4B	13.8	41.5	38.1	-3.4	41.5	37.0	-4.4	-1.1
126340 KEYSPG-1	18	89.6	82.2	-7.4	89.6	89.6		7.4
126341 KEYSPST1	18	44.9	41.2	-3.7	44.9	44.9		3.7
126344 W59TH GT1	13.8	9.0	8.2	-0.7	9.0	8.0	-1.0	-0.2
126379 AST 2	13.8	102.9	94.5	-8.5	102.9	91.9	-11.0	-2.6
126468 ERGT1	18	86.4	79.3	-7.1	86.4	77.1	-9.3	-2.2
126469 ERGT2	18	87.5	80.3	<b>-</b> 7.2	87.5	78.1	-9.4	-2.2
126564 KENTGEN	13.8	46.5	42.7	-3.8	46.5	46.5		3.8
126588 E74 GT1	13.8	11.5	10.5	-0.9	11.5	10.2	-1.2	-0.3
126589 E74 GT2	13.8	11.3	10.4	-0.9	11.3	10.1	-1.2	-0.3
126606 COOP CITY	13.8	23.3	21.4	-1.9	23.3	20.8	-2.5	-0.6
126650 AK 3	22	303.1	278.2	-24.9	303.1	270.6	-32.6	-7.6
126652 RAV 3	22	573.9	526.8	-47.1	441.6	396.9	-44.6	-129.9
126653 AK 2	20	208.7	191.5	-17.2	208.7	186.3	-22.4	-5.2
126654 AST 3	20	215.1	197.5	-17.7	215.1	215.1		17.6
126655 AST 4	20	218.5	200.5	-17.9	218.5	195.0	-23.4	<b>-</b> 5.5
126656 AST 5	20	218.9	200.9	-18.0	218.9	218.9		18.0
126657 RAV 1	20	212.4	194.9	-17.4	212.4	212.4		17.5
126658 RAV 2	20	227.8	209.1	-18.7	359.8	359.8		150.7
126659 COGENGT1	13.8	53.2	48.8	-4.4	53.2	47.5	-5.7	-1.3
126660 COGENGT2	13.8	53.2	48.8	-4.4	53.2	47.5	<b>-</b> 5.7	-1.3
126661 COGENGT3	13.8	53.2	48.8	-4.4	53.2	47.5	-5.7	-1.3
126662 COGENGT4	13.8	53.2	48.8	-4.4	53.2	47.5	-5.7	-1.3
126663 COGENGT5	13.8	53.2	48.8	-4.4	53.2	47.5	-5.7	-1.3
126664 COGENST1	13.8	57.3	52.6	-4.7	57.3	51.2	-6.1	-1.4
126665 COGENST2	13.8	57.3	52.6	-4.7	57.3	51.2	-6.1	-1.4
126666 COGENST3	13.8	57.3	52.6	-4.7	57.3	51.2	-6.1	-1.4
126674 JFK G1	13.8	25.9	23.8	-2.1	25.9	23.2	-2.8	-0.6

	atch for En		Net					
Bus# BusName		Pgen	NewGen	_	Pgen	NewGen	Change	Difference
126675 JFK G2	13.8	25.9	23.8	-2.1		23.2	-2.8	-0.6
126676 JFK G3	13.8	16.2	14.8	-1.3		14.4	-1.7	-0.4
126677 RNYGT4-7	13.8	37.3	34.2	-3.1	37.3	37.3		3.1
126678 RYYGT811	13.8	48.6	44.6	-4.0	48.6	43.4	-5.2	-1.2
126683 YORK G4	13.8	43.3	39.7	-3.6	43.3	38.7	-4.6	-1.0
126684 YORK G1	13.8	34.3	31.5	-2.8		30.6	-3.7	-0.9
126685 YORK G2	13.8	34.3	31.5	-2.8	34.3	30.6		-0.9
126686 YORK G3	13.8	43.3	39.7	-3.6	43.3	38.7	-4.6	-1.0
126692 SCS18-G4	18	114.0	104.6	-9.4	114.0	101.8	-12.2	-2.8
126710 SCS18-G5	18	114.0	104.6	-9.4	114.0	101.8	-12.2	-2.8
126711 SCS18-G6	18	96.0	88.1	<b>-</b> 7.9	96.0	85.7	-10.3	-2.4
126712 ASTGT5	13	9.3	8.5	-0.8	9.3	8.3	-1.0	-0.2
126713 ASTGT7-8	13	17.9	16.4	-1.5	17.9	16.0	-1.9	-0.4
126736 RNY 2EGT	13	42.7	39.2	-3.5		38.2	-4.6	-1.0
126737 RNY 7EGT	13	45.7	42.0	-3.8		40.8	-4.9	-1.2
126738 RNY 7WGT	13	45.9	42.2	-3.8	45.9	41.0	-4.9	-1.2
126739 RNY 9EGT	13	45.4	41.6	-3.7	45.4	40.5	-4.9	-1.1
128749 Q206_HUDSN	345	660.0	595.5	-64.5	660.0	575.8	-84.2	-19.7
147788 POLETGT2	18	101.8	93.4	-8.4	101.8	101.8		8.4
147789 POLETSTG	18	82.7	75.9	-6.8	82.7	82.7		6.8
147790 POLETGT1	18	101.8	93.4	-8.4	101.8	101.8		8.4
147810 PAGTFOXH	13.8	27.4	25.1	-2.2	27.4	24.5	-2.9	-0.6
147811 PAGTGOW1	13.8	26.4	24.2	-2.2	26.4	23.6	-2.8	-0.6
147812 PAGTGOW2	13.8	26.8	24.6	-2.2	26.8	23.9	-2.9	-0.7
147813 PAGTHG41	13.8	26.8	24.6	-2.2		23.9	-2.9	-0.7
147814 PAGTHG42	13.8	26.3	24.1	-2.2	26.3	23.5	-2.8	-0.6
147815 PAGTHG11	13.8	26.2	24.0	-2.2		23.4	-2.8	-0.6
147816 PAGTHG12	13.8	26.2	24.0			23.4		-0.6
147817 PAGTVNGW	13.8	27.4	25.1	-2.2		27.4		2.3
147818 PAGTVER1	13.8	26.9	24.7	-2.2		26.9		2.2
147819 PAGTVER2	13.8	25.5	23.4	-2.1		25.5		2.1
128253 BAY_G1	13.8	37.2	33.6			32.5		-1.1
128254 BAY_G3	13.8	37.2	33.6	-3.6	37.2	32.5	-4.8	-1.1
128255 BAY_G5	13.8	37.2	33.6	-3.6	37.2	32.5		-1.1
128256 BAY_G7	13.8	37.2	33.6	-3.6		32.5		-1.1
138253 BAY_G2	13.8	37.2	33.6	-3.6	37.2	32.5	-4.8	-1.1
138254 BAY_G4	13.8	37.2	33.6	-3.6		32.5	-4.8	-1.1
138255 BAY_G6	13.8	37.2	33.6	-3.6		32.5	-4.8	-1.1
138256 BAY_G8	13.8	37.2	33.6	-3.6		32.5		-1.1
128666 Q261SO_PIER	13.8	64.0	57.7	-6.3		55.8		-1.9
TOTALS		6893.6	6305.9	-586.9	6893.3	6307.1	-587.3	1.2

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