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August 31, 2020

VIA ELECTRONIC MAIL ONLY

Aida Camacho-Welch, Secretary
Board of Public Utilities
44 South Clinton Avenue, 9th Flr.
P.O. Box 350
Trenton, New Jersey 08625-0350

**Re: Energy Strong II Program Quarterly Report
Q2—2020**

Dear Secretary Camacho-Welch:

Enclosed for filing is the report on the first quarter of the Energy Strong II program for 2020—January 1, 2020 through March 31, 2020.

The Energy Strong II program was addressed by a Board Order dated September 11, 2019 (September 11 Order) in Docket Nos. EO18060629 & GO18060630. That order adopted a Stipulation pursuant to which PSE&G is operating the program known as Energy Strong II.

Paragraph 45 of that Stipulation requires reports on:

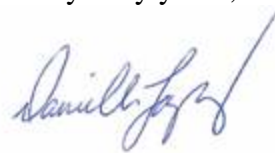
- the estimated quantity of work and the quantity completed to date or, if the project cannot be quantified with numbers, the major tasks completed, e.g. design phase, material procurement, permit gathering, phases of construction;
- the forecasted and actual Energy Strong II costs-to-date for the quarterly reporting period and for the program-to-date; where projects are identified by major category (with actual variances from forecasted amounts expressed in dollar and percentage terms);
- the estimated Energy Strong II project completion date, and estimated completion dates for each Energy Strong II sub-program and the Program as a whole;
- Anticipated changes to ES II projects, if any;
- Actual capital expenditures made in the normal course of business on similar projects, identified by comparable Energy Strong II sub-program; and
- Any other performance metrics concerning the IIP required by the Board.

The reporting requirements listed in paragraph 45 of the Stipulation are addressed by the enclosed materials.

Paragraphs 46, 47, and 49 of that Stipulation provide that PSE&G shall report quarterly on the performance of Electric Stations and gas M&R Stations; Contingency Reconfiguration Strategies and Grid Modernization ADMS in a manner that compares the performance of the upgraded or new plant to pre-Energy Strong II Plant.

Please contact the undersigned with any questions or concerns.

Very truly yours,

A handwritten signature in blue ink, appearing to read "Danielle Lopez", with a stylized flourish at the end.

Danielle Lopez

cc: ***Via Email only***
Stefanie Brand
Brian Lipman
Ami Morita
Felicia Thomas-Friel
Karen Forbes
Paul Flanigan
Grace Strom Power
Stacy Peterson
Matko Illic
Caroline Vachier

ES II Program Quarterly Report to the Board of Public Utilities
Q2-2020 - April, May, June 2020

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Metric 1 – Estimated Quantity of Work

For each Energy Strong II Subprogram:

A. Estimated quantity of work

- i. For the subprogram
- ii. Planned to date (based on forecasted estimates at the beginning of the reporting period)

B. Quantity completed to date or, if the project cannot be quantified with numbers, the major tasks completed, e.g. design phase, material procurement, permit gathering, phases of construction;

NOTE: This quarterly report covers the period April 1, 2020 through June 30, 2020. A significant portion of the work completed during this quarter included refining project scopes, creating baseline budgets, developing work plans and updating budget authorization. Therefore for all projects the status of the major tasks has been provided. More details regarding forecasted units of work will be provided in subsequent quarterly reports as they become available.

Energy Strong II Electric Program

Electric Station Flood Mitigation

A. Estimated Quantity of Work:

- i. **Project:** The estimated quantity of work for this Subprogram includes implementation of flood mitigation measures (FM) at 16 Substations. This remains unchanged from the beginning of the Energy Strong II Program. The Stipulation also allows for inclusion of substation switchgear Life Cycle replacement, subject to funding available within the Flood Mitigation budget cap.
- ii. **Planned to Date:** Major work planned to the end of June 2020 included:
 - o Completion of Key Drawing Review (KDR), estimate update to Study Level and URB Study Level estimate transition approval to Study for 13 Flood Stations.
 - o Issue Switchgear purchase orders for 14 Flood stations.

B. Quantity of Work Completed to Date:

As of the end of June 2020, the ESFM program progressed on schedule. Thirteen (13) of the 16 projects are on track. Eleven (11) projects are in detailed design engineering and 2 are on track

to commence detailed design per their required project schedules. Three (3) projects remain in planning dependent on property acquisition within the 69kv projects at the same sites.

- 11 projects have transitioned to a 50% level estimate.
- 14 Purchase Orders have been awarded for major equipment (switchgear).
- 11 projects have started detailed engineering design.
- 6 out of 9 projects have awarded POs for A/E design.
- 13 projects have completed scope lockdown.
- 1 project has awarded a purchase order for civil construction commencement
- 3 projects (Ridgefield 4kv, Market St and Ridgefield 13kv) are in active construction.

Electric Contingency Reconfiguration

A. Estimated Quantity of Work:

- Project:** CR Subprogram estimated 1816 Reclosers and 3282 Fuse Savers to be installed over the life of the program.
- Planned to Date:** It was anticipated that 561 Reclosers were to be installed by the end of Q2-2020.

B. Quantity of Work Completed to Date:

- 455 Reclosers have been installed.
- 141 of the 455 installed reclosers were commissioned into service.
- 857 Reclosers have been engineered for installation.

Electric Grid Modernization - Communication System

A. Estimated Quantity of Work:

- **Project:** The Company will install a communication system upgrade comprised of a new Wireless Radio Network and 134.5 miles of new fiber and Retrofit of wireless radios in 2,766 existing reclosers. SCADA system communications at designated substations will be cutover to the fiber network.

- **Planned to Date:**

- a. Install Wireless Network and begin installation of wireless radios.
- b. Continue preliminary design and engineering of fiber installations and begin construction for priority stations/operations locations.
- c. Complete review fiber cutover candidate stations and begin project scope development.

B. Quantity of Work Completed to Date:

- Wireless Network infrastructure hardware and software for connecting to the FirstNet LTE Network placed In-Service.
- 300 wireless radios received and 147 commissioned.
- 11 Fiber install projects totaling 26.4 miles in progress: 6 in Design and 5 in Construction.
- Completed full review of Fiber cutover candidates, scope finalized for 12 stations.

Electric Grid Modernization - ADMS

A. Estimated Quantity of Work:

- i. **Project:** The subprogram includes Outage Management System (OMS), Distribution Management System / Distributed Energy Management System (DMS/DERMS), Distribution Supervisory Control and Data Acquisition (DSCADA) and Advanced Distribution Management System (ADMS) Platform Upgrades.

- ii. **Planned to Date:**

- Complete Scopes of Work for ADMS Platform Upgrade, DMS/DERMS & OMS.
- Complete procurement/contracting for supplies and services.
- Complete cost estimates and baseline schedules for the ADMS subprogram components.
- Hold Project Kick-off meetings and on-board primary vendor project teams.

B. Quantity of Work Completed to Date:

- Completed Procurement/contracting for supplies and services.

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- Completed Baseline schedules to accompany existing 70% Estimates for ADMS Subprogram components.
- Held Project Kick-off meetings on-boarded primary vendor project teams.

Electric Stipulated Base Program

A. Estimated Quantity of Work:

- Project:** The Electric Stipulated Base provides that \$100 million will be spent at the Company's discretion toward electric outside plant higher design and construction standards ("outside plant" or OP-HDS) and/or electric life cycle subprograms identified in the Energy Strong II petition.
- Planned to Date:** Completed initial up-front planning activities, scheduling, and preliminary engineering.

B. Quantity of work Completed to Date:

In June 2020, four (4) Lifecycle stations (Plainfield, Paramus, Hamilton, & Woodbury) were approved by the URB under the Electric stipulated base program and will commence with scope and schedule refinement.

Gas M&R

A. Estimated Quantity of work:

- Project:** The estimated quantity of work for this subprogram includes implementation of flood mitigation measures at 2 of the 6 Gas M&R substations listed in the Program Stipulation and life cycle upgrades at all 6 Substations. This remains unchanged from the beginning of the Energy Strong II Program.
- Planned to Date:** Complete Requests for Proposals (RFP) for Engineering Design Services for six stations.

B. Quantity of Work Completed to Date:

- Bids received and contracts awarded for engineering design for five M&R stations.
- Bids Received for the remaining M&R station.

Metric 2 – Estimated Program and Subprogram Completion Dates

The estimated ES II project completion date, and estimated completion dates for each ESII subprogram and the Program as a whole.

Note - Project completion date is the when the project closeout report is completed.

Program

Program	Subprogram	Forecast In-Service	Timeline for Completion
ES II	Electric & Gas	Dec-23	Jun-24

Subprograms

Program	Subprogram	Forecast In-Service	Timeline for Completion
Electric	Flood Mitigation	Dec-23	Jun-24
Electric	Contingency Reconfiguration	Jul-23	Jan-24
Electric	Grid Modernization	Nov-23	Jun-24
Gas	M&R	Jul-23	Jan-24

Flood Mitigation

Project		Forecast In-Service	Timeline for Completion	Updates	Expected Changes
Constable Substation*	Hook	Jun-21	Dec-21	Project schedule will be finalized by Q3-2020 program update	
Market Substation Elimination	Street	Sep-21	Jun-22		
Meadow Substation	Road	Sep-23	May-24		
Academy Substation	Street	Oct-21	Aug-22		
Ridgefield Substation Elimination	4kv	Jun-21	Apr-22		
Ridgefield Substation	13kv	Oct-22	Jun-23		
Hasbrouck Substation		Nov-22	May-23		
Kingsland Substation		Oct-23	May-24		
Lakeside Substation*	Avenue	May-23	Nov-23	Project schedule will be finalized by Q3-2020 program update	
Leonia Substation		Nov-22	Oct-23		
Clay Substation	Street	Dec-22	May-24		

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Project		Forecast In-Service	Timeline for Completion	Updates	Expected Changes
State Street Substation		Sep-22	Mar-24		
Toney's Brook Substation		Apr-23	Jun-24		
Waverly Substation		Dec-23	Apr-24		
Woodlynne Substation		Sep-23	May-24		
Orange Valley Substation*		Dec-23	Jun-24	Project schedule will be finalized by Q3-2020 program update	

* Project is in planning; Forecast in-service and Completion dates under development. Project will be completed within program timeframe (Dec-23).

Contingency Reconfiguration

Project	Forecast In-Service	Timeline for Completion	Updates	Expected Changes
Reclosers	Apr-22	Oct-22		
Fuse Savers	Jul-23	Jan-24		

Grid Modernization

Project	Forecast In-Service	Timeline for Completion	Updates	Expected Changes
Wireless Network	Jan-21	Dec-21		
Fiber	Dec-23	Jun-24		
Retrofits	Dec-23	Jun-24		
ADMS	Oct-22	Jun-23		

Gas Metering & Regulation (M&R)

Project	Forecast In-Service	Timeline for Completion	Updates	Expected Changes
Camden (M&R)	Jan-23	Apr-23	Planned for Nov-20 URB approval	
Mt. Laurel (M&R)	Jan-22	Jun-22	Planned for Sep-20 URB approval	
Central (M&R)	Jan-23	Jun-23	Planned for Oct-20 URB approval	
East Rutherford (M&R)	Jan-23	Jul-23	Planned for Oct-20 URB approval	
Paramus (M&R)	Jul-23	Jan-24	Planned for Oct-20 URB approval	
Westampton (M&R)	Jul-21	Nov-21	Planned for Sep-20 URB approval	

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Metric 3 – SAIFI/MAIFI

116 circuits were completed in this reporting quarter. This report includes data for circuits involved in the Major and Non-Major events in Q2-2020 including –

- Derecho and Severe Thunderstorms, 03-June-2020
- Load Shedding, Bergen 138kV Switching Station, 18-June-2020

Please note that none of the circuits involved in the Bergen Load Shedding Event are in the ES II completed circuits list.

Detailed tables for this metric are included at the end of this report.

- Table 1 - Major Event Performance Report.
- Table 2 – Non Major Event Performance Report.

Metric 4 – Quarterly and Program To-Date Forecast and Actual Costs

Flood Mitigation

Quarter Performance (Q2-2020, April to June)

Cost Type	Actuals	Forecast	Variance (\$)	Variance (%)
Material	\$736,674	\$745,608	\$(8,934)	-1%
Other Costs	\$9,588,432	\$9,403,207	\$185,226	2%
Total	\$10,325,107	\$10,148,815	\$176,292	2%

Program to Date (June, 2020)

Cost Type	Actuals	Forecast	Variance (\$)	Variance (%)
Material	\$1,347,225	\$1,356,158	\$(8,934)	-1%
Other Costs	\$16,074,167	\$15,898,441	\$175,726	1%
Total	\$17,421,391	\$17,254,599	\$166,792	1%

Contingency Reconfiguration

Quarter Performance (Q2-2020, April to June)

Cost Type	Actuals	Forecast	Variance (\$)	Variance (%)
Material	\$3,065,205	\$6,636,552	\$(3,571,348)	-54%
Other Costs	\$5,597,333	\$6,389,696	\$(792,364)	-12%
Total	\$8,662,537	\$13,026,248	\$(4,363,711)	-33%

Program to Date (June, 2020)

Cost Type	Actuals	Forecast	Variance (\$)	Variance (%)
Material	\$15,116,885	\$16,828,355	\$(1,711,470)	-10%
Other Costs	\$18,079,257	\$20,731,498	(2,652,241)	-13%
Total	\$33,196,142	\$37,559,853	\$(4,363,711)	-12%

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Grid Modernization - Communication

Quarter Performance (Q2-2020, April to June)

Cost Type	Actuals	Forecast	Variance (\$)	Variance (%)
Material	\$72,848	\$926,140	\$(853,292)	-92%
Other Costs	\$4,086,572	\$3,808,540	\$278,033	7%
Total	\$4,159,420	\$4,734,680	\$(575,259)	-12%

Program to Date (June, 2020)

Cost Type	Actuals	Forecast	Variance (\$)	Variance (%)
Material	\$261,243	\$1,111,288	\$(850,045)	-76%
Other Costs	\$6,196,254	\$5,912,858	\$283,397	5%
Total	\$6,457,497	\$7,024,146	\$(566,648)	-8%

Grid Modernization – ADMS

Quarter Performance (Q2-2020, April to June)

Cost Type	Actuals	Forecast	Variance (\$)	Variance (%)
Material	\$1,218,266	\$3,582,240	\$(2,363,974)	-66%
Other Costs	\$3,212,276	\$3,380,530	\$(168,254)	-5%
Total	\$4,430,542	\$6,962,770	\$(2,532,228)	-36%

Program to Date (June 2020)

Cost Type	Actuals	Forecast	Variance (\$)	Variance (%)
Material	\$1,218,266	\$3,796,662	\$(2,578,396)	-68%
Other Costs	\$4,174,178	\$4,128,010	\$46,168	1%
Total	\$5,392,444	\$7,924,672	\$(2,532,228)	-32%

Gas M&R

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Quarter Performance (Q2-2020, April to June)

Cost Type	Actuals	Forecast	Variance \$	Variance %
Material	\$0	\$0	\$0	0%
Other Costs	\$651,513	\$848,609	\$(197,096)	-23%
Total	\$651,513	\$848,609	\$(197,096)	-23%

Program to Date (June, 2020)

Cost Type	Actuals	Forecast	Variance \$	Variance %
Material	\$0	\$0	\$	0%
Other Costs	\$939,841	\$1,084,531	\$(144,689)	-13%
Total	\$939,841	\$1,084,531	\$(144,689)	-13%

* Quarterly forecast is as of April 1, 2020

Actual capital expenditures made in the normal course of business on similar projects, identified by comparable ESII sub-program:

At this stage of the Program, no work is at the stage of completion to facilitate this comparison

Detailed Tables for Metric 3 – SAIFI/MAIFI

Table 1 - Major Event Performance

This report includes data for circuits involved in the following Major Events for the reporting quarter –

- Derecho and Severe Thunderstorms, 03-June-2020
- Load Shedding, Bergen 138kV Switching Station, 18-June-2020

Circuit	5 Year Baseline SAIDI	Report Quarter SAIDI
ALD 8015	0.12276	
ALD 8026	0.07735	
BAO 8003	0.00096	
BAO 8006		
BEN 8012	0.15243	
BEN 8015	0.00623	
BEN 8021	0.00143	
BRU 8011	0.04127	0.00363
BRU 8012	0.01236	
BUS 8011	0.13129	0.04924
CED 8011	0.05594	
CED 8021	0.03575	
CED 8022	0.05071	
CIN 8032	0.32648	1.13907
CIN 8043	0.18459	0.16269
CLF 8012	0.00401	
CLF 8013	0.00064	
CLF 8023	0.00895	
CLK 8022	0.06677	0.21086
CLK 8024	0.01526	
CON 8001		
COR 8042	0.02723	
CRX 8003	0.07703	0.00467
DAY 8002	0.03617	
DVB 8013	0.00455	
EAT 8011	0.09890	0.01689
FAW 8014	0.21021	
FAW 8022	0.03342	
FAW 8026	0.00902	
FRA 8021		
GBK 8021	0.06208	
GBK 8023	0.02487	
GBK 8025	0.31504	
HAT 8023	0.01869	
HAT 8035	0.04291	
HAW 8032	0.07658	0.00000
HID 8043	0.06432	

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Circuit	5 Year Baseline SAIDI	Report Quarter SAIDI
HID 8044	0.08229	
HNC 8015	0.10285	
HNC 8021	0.02280	
HNC 8024	0.21727	
HOE 8047	0.05561	
HOM 8001	0.06027	
HOM 8012	0.00000	
HOM 8014	0.00115	
HOM 8041	0.00000	
JAC 8021	0.00318	
JAC 8023	0.05394	
JAC 8043	0.04897	
KIL 8023		
KIL 8024	0.01504	
KIL 8041	0.02511	
KIL 8044	0.03622	
KIN 8015	0.00194	
KUL 8012	0.02022	
KUL 8022	0.00186	0.00206
KUL 8023	0.00582	
KUS 8004	0.00500	0.03236
KUS 8042	0.07830	0.02334
KUS 8045	0.02505	
LAF 8013	0.00125	0.00126
LAF 8015	0.00354	
LAU 8021	0.22050	
LAU 8023	0.82844	
LAU 8034	0.40130	
LAU 8035	0.29567	
LAW 8014	0.03705	1.01225
LCE 8003	0.15926	0.01544
LCE 8032	0.30801	0.03039
LCE 8043	0.10606	
LCE 8046	0.01692	
LEO 8042		
LEV 8006	0.23842	
LOC 8012		0.04313
LOC 8033		
MAD 8015	0.15514	0.95230
MAD 8031	0.45221	0.01856
MAI 8013	0.05318	
MAR 8004	0.02404	
MAR 8017	0.45014	
MAY 8014	0.03470	0.00505
MAY 8024	0.00558	
MDF 8012	0.58371	0.18948

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Circuit	5 Year Baseline SAIDI	Report Quarter SAIDI
MDF 8023	0.26488	0.54601
MEA 8013	0.04040	0.00365
MIN 8024		
MON 8003	0.27132	
NBS 8011	0.01516	
NBS 8013	0.00000	
NBS 8023	0.00057	
NED 8022	0.02419	0.00773
NEW 8014	0.01839	
NIT 8007	0.00000	
NRB 8014	0.03116	
PIE 8011		
PIE 8023	0.04636	
PLI 8003	0.00215	
PLI 8005	0.16440	0.01832
POH 8024	0.12643	
RFL 8034	0.02787	
RVR 8031	0.02752	
SAD 8045	0.00284	
SDH 8034	0.00000	
SMV 8013	0.00000	
SMV 8021		
SMV 8022	0.01681	
SMV 8023	0.01943	
SPF 8012	0.52501	
SUN 8021		
SWT 8001		
SWT 8002		
WEW 8011	0.18034	
WEW 8033	0.03506	
WEW 8041		
WFL 8041	0.07197	
WOR 8021		

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Table 2 - Non Major Event Performance

This report includes data for circuits involved in the following Major Events for the Reporting Quarter

- Derecho and Severe Thunderstorms, 03-June-2020
- Load Shedding, Bergen 138kV Switching Station, 18-June-2020

Circuit	5 Year Baseline SAIDI	Report Quarter SAIDI
ALD 8015	0.12276	
ALD 8026	0.07735	
BAO 8003	0.00096	
BAO 8006		
BEN 8012	0.15243	
BEN 8015	0.00623	
BEN 8021	0.00143	
BRU 8011	0.04127	0.00363
BRU 8012	0.01236	
BUS 8011	0.13129	0.04924
CED 8011	0.05594	
CED 8021	0.03575	
CED 8022	0.05071	
CIN 8032	0.32648	1.13907
CIN 8043	0.18459	0.16269
CLF 8012	0.00401	
CLF 8013	0.00064	
CLF 8023	0.00895	
CLK 8022	0.06677	0.21086
CLK 8024	0.01526	
CON 8001		
COR 8042	0.02723	
CRX 8003	0.07703	0.00467
DAY 8002	0.03617	
DVB 8013	0.00455	
EAT 8011	0.09890	0.01689
FAW 8014	0.21021	
FAW 8022	0.03342	
FAW 8026	0.00902	
FRA 8021		
GBK 8021	0.06208	
GBK 8023	0.02487	
GBK 8025	0.31504	
HAT 8023	0.01869	
HAT 8035	0.04291	
HAW 8032	0.07658	0.00000
HID 8043	0.06432	
HID 8044	0.08229	
HNC 8015	0.10285	
HNC 8021	0.02280	
HNC 8024	0.21727	
HOE 8047	0.05561	
HOM 8001	0.06027	
HOM 8012	0.00000	
HOM 8014	0.00115	
HOM 8041	0.00000	
JAC 8021	0.00318	

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Circuit	5 Year Baseline SAIDI	Report Quarter SAIDI
JAC 8023	0.05394	
JAC 8043	0.04897	
KIL 8023		
KIL 8024	0.01504	
KIL 8041	0.02511	
KIL 8044	0.03622	
KIN 8015	0.00194	
KUL 8012	0.02022	
KUL 8022	0.00186	0.00206
KUL 8023	0.00582	
KUS 8004	0.00500	0.03236
KUS 8042	0.07830	0.02334
KUS 8045	0.02505	
LAF 8013	0.00125	0.00126
LAF 8015	0.00354	
LAU 8021	0.22050	
LAU 8023	0.82844	
LAU 8034	0.40130	
LAU 8035	0.29567	
LAW 8014	0.03705	1.01225
LCE 8003	0.15926	0.01544
LCE 8032	0.30801	0.03039
LCE 8043	0.10606	
LCE 8046	0.01692	
LEO 8042		
LEV 8006	0.23842	
LOC 8012		0.04313
LOC 8033		
MAD 8015	0.15514	0.95230
MAD 8031	0.45221	0.01856
MAI 8013	0.05318	
MAR 8004	0.02404	
MAR 8017	0.45014	
MAY 8014	0.03470	0.00505
MAY 8024	0.00558	
MDF 8012	0.58371	0.18948
MDF 8023	0.26488	0.54601
MEA 8013	0.04040	0.00365
MIN 8024		
MON 8003	0.27132	
NBS 8011	0.01516	
NBS 8013	0.00000	
NBS 8023	0.00057	
NED 8022	0.02419	0.00773
NEW 8014	0.01839	
NIT 8007	0.00000	
NRB 8014	0.03116	
PIE 8011		
PIE 8023	0.04636	
PLI 8003	0.00215	
PLI 8005	0.16440	0.01832
POH 8024	0.12643	
RFL 8034	0.02787	
RVR 8031	0.02752	
SAD 8045	0.00284	

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Circuit	5 Year Baseline SAIDI	Report Quarter SAIDI
SDH 8034	0.00000	
SMV 8013	0.00000	
SMV 8021		
SMV 8022	0.01681	
SMV 8023	0.01943	
SPF 8012	0.52501	
SUN 8021		
SWT 8001		
SWT 8002		
WEW 8011	0.18034	
WEW 8033	0.03506	
WEW 8041		
WFL 8041	0.07197	
WOR 8021		