

**FOR CONSIDERATION**

January 27, 2021

**TO:** The Board of Trustees

**FROM:** Thomas Falcone

**SUBJECT:** Consideration of the Adoption of PSEG Long Island Implementation Plans for Isaias Task Force Report Recommendations and Extension of the Proposed 180-Day Report

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**Requested Action**

The Board of Trustees (the “Board”) of the Long Island Power Authority (“LIPA”) is requested to approve a resolution adopting certain PSEG Long Island Implementation Plans for the Isaias Task Force (the “Task Force”) Recommendations, and to extend the due date for the 180-day report, which resolution is attached hereto as **Exhibit “A”**.

**Background**

On Tuesday, August 4, 2020, Tropical Storm Isaias landed on Long Island with rain and wind gusts of up to 70 miles per hour. The resulting damage to the electrical system caused approximately 646,000 customer outages.

On August 5, LIPA’s Chief Executive Officer initiated an independent investigation of the circumstances and root causes that led to well-documented lapses in PSEG Long Island’s storm response. The Task Force was charged with providing actionable recommendations and overseeing PSEG Long Island’s remediation activities. LIPA committed to reporting the Task Force’s findings and recommendations to the LIPA Board of Trustees and the public in a 30-Day Preliminary Report, 90-Day Interim Report, and 180-Day Final Report.

The Task Force presented the 30-Day Report to LIPA’s Board of Trustees at the September 23, 2020 Board Meeting and released it to the public. Because of the urgency of the immediate threat of another major storm, the 30-Day Report focused on the failures of PSEG Long Island’s information technology and communication systems and their proximate causes.

On November 13, DPS provided a recommendation (the “DPS Recommendation”) to the LIPA Board as a result of its ongoing investigation of PSEG Long Island’s storm response. DPS Staff identified more than 70 potential violations of PSEG Long Island’s ERP. The DPS recommended, among other things, that LIPA:

- evaluate options to terminate PSEG Long Island as LIPA’s Service Provider;

- declare PSEG Long Island’s poor performance during Isaias as a first failure of the Major Storm Performance Metric as defined in the OSA; and
- seek to either terminate or renegotiate the OSA to enable greater oversight by LIPA and DPS.

The Task Force presented the 90-Day Report to the Board at the November 18, 2020 Board Meeting. The 90-Day Report expanded on the findings of the 30-Day Report and addressed broader questions on the effectiveness of PSEG Long Island’s management of utility operations.

As set forth in Appendix 2 and Appendix 3 of the 90-Day Report, the Task Force provided nearly 100 recommendations for the Board’s consideration (the “Task Force Recommendations”). The Task Force Recommendations were designed to, among other things, (i) change management incentives and accountabilities; (ii) reform information technology and emergency management; and (iii) strengthen LIPA’s oversight. The Task Force Recommendations are tiered based upon priority. The tiered system allows LIPA and PSEG Long Island to either implement or present implementation plans to implement the most critical recommendations on an accelerated basis.

By Resolution No. 1568, dated November 18, 2020, the Board directed the Task Force, together with PSEG Long Island, to implement the Task Force Recommendations, including the creation of Implementation Plans to be completed within the tiered structure as set forth in Appendix 2 and Appendix 3 of the 90-Day Report; and to report to the Board at least quarterly until such Task Force Recommendations are fully implemented.

Thereafter, by Resolution No. 1570, dated December 16, 2020, the Board adopted certain Implementation Plans for the Task Force Tier 1 Recommendations, and directed PSEG Long Island to amend the remaining Tier 1 Implementation Plans and resubmit such plans to the Task Force for review at the Board’s January 2021 meeting.

### **Discussion of Implementation Plans**

On December 7, 2020, PSEG Long Island submitted Implementation Plans for the Tier 1 Recommendations to the Task Force for review. The Task Force provided comments on each Implementation Plan on December 9, 2020 and asked for revised Plans to be submitted on December 11.

The Task Force subsequently reviewed the December 11 Plans provided by PSEG Long Island and recommended that eight of the revised Tier 1 Plans be adopted by the Board and 21 be resubmitted for the Board’s review at the January 2021 meeting with Task Force’s comments addressed.

The Task Force asked PSEG Long Island to submit the Tier 2 Plans and resubmit the 21 revised Tier 1 Plans on January 10 and the deliverables for the completed projects. PSEG Long Island submitted the majority of the Plans and six deliverables on January 12, 13 and 14. A summary of the Implementation Plans is provided as **Exhibit “B”**. The Task Force recommends the Board adopt 10 of the 31 Tier 1 and Tier 2 Implementation Plans as attached hereto as **Exhibit “C”** and

amend and resubmit at the Board's February meeting 15 of the Tier 1 and 7 of the Tier 2 Plans with the comments in **Exhibit "B"** addressed.

The Implementation Plans for those recommendations designated as Tier 3 shall be submitted by PSEG Long Island for Task Force review no later than February 8 for consideration at the Board's February meeting. Thereafter, the Task Force shall submit a Status Report to the Board no less than quarterly that summarizes the status of the Implementation Plans for each Task Force Recommendation.

### **Extension of the Task Force's 180-Day Final Report**

As previously discussed, LIPA committed in August 2020 to reporting the Task Force's findings and recommendations to the LIPA Board of Trustees and the public in a 30-Day Preliminary Report, 90-Day Interim Report, and 180-Day Final Report. Both the 30-Day Preliminary Report and the 90-Day Interim Report have been submitted to the Board. The Task Force's 180-Day Final Report is due to the Board in February 2021.

LIPA Staff is requesting that the Board adopt the Resolution, attached hereto as **Exhibit "A"**, that, in part requests that the 180-Day Final Report be extended to a 270-Day Final Report.

The vast majority of Task Force's recommendations were made in the 90-Day Report. PSEG Long Island's progress in resolving the management, information technology, and communication issues has been slower than expected at the time the Task Force's investigation began. The resolution of those issues will be part of the Task Force's Final Report.

The Task Force continues to receive and assess PSEG Long Island Implementation Plans, which are also requiring more revisions than originally anticipated. The Task Force is keeping the Board apprised of the activities associated with those plans. Lastly, as the Board is aware, work streams relating to Options Analysis and Transition Planning are significant efforts by LIPA Staff and are being advanced expeditiously per the Board's direction at the December Board meeting. These workstreams have a March 31, 2021 deadline.

### **Recommendation**

The issues identified by the Task Force's investigation, as well as the DPS' separate investigation, remain urgent. Based upon the foregoing, I recommend approval of the above requested action by adoption of a resolution in the form attached hereto.

### **Attachments**

- Exhibit "A"** Resolution
- Exhibit "B"** Summary of Implementation Plans
- Exhibit "C"** Tier 1 and Tier 2 Implementation Plans

**RESOLUTION ADOPTING CERTAIN PSEG LONG ISLAND IMPLEMENTATION PLANS FOR THE ISAIAS TASK FORCE REPORT RECOMMENDATIONS AND EXTENSION OF THE PROPOSED 180-DAY REPORT**

**WHEREAS**, on Tuesday, August 4, 2020, Tropical Storm Isaias landed on Long Island with rain and wind gusts of up to 70 miles per hour, resulting in damage to the electrical system and causing approximately 646,000 customer outages; and

**WHEREAS**, pursuant to Section 1020-f(y) of the Public Authorities Law, General Powers of the Authority, LIPA, in part, may “make any inquiry, investigation, survey or study which the authority may deem necessary to enable it effectively to carry out the provisions of this title. . .”; and

**WHEREAS**, pursuant to Section 4.4(16), Rights and Responsibilities of LIPA, of the Amended and Restated Operations Services Agreement (“OSA”), LIPA, in part, has the right to “make recommendations to the Service Provider, in each case as may be reasonably necessary or appropriate to perform LIPA’s oversight responsibilities and obligations with respect to the provision of Operations Services under this Agreement and as may otherwise be necessary or appropriate to comply with LIPA’s legal, contractual and fiduciary obligations. . .”; and

**WHEREAS**, on August 5, LIPA’s Chief Executive Officer initiated an independent review of the circumstances and root causes that led to the lapses in PSEG Long Island’s Tropical Storm Isaias storm restoration; and

**WHEREAS**, LIPA’s Chief Executive Officer appointed an Isaias Task Force that was charged with both providing actionable recommendations and overseeing PSEG Long Island’s remediation activities; and

**WHEREAS**, LIPA committed to reporting the Isaias Task Force’s findings, observations, and recommendations to the LIPA Board of Trustees and public in a 30-Day Report, 90-Day Report, and 180-Day Final Report; and

**WHEREAS**, the Task Force presented the 30-Day Report to LIPA’s Board of Trustees at the September 23, 2020 Board Meeting and released it to the public; and

**WHEREAS**, on November 18, 2020, the Task Force presented the 90-Day Report, which provided recommendations to, among other things, (i) Change Management Incentives and Accountabilities; (ii) Reform Information Technology and Emergency Management; and (iii) Strengthen LIPA’s Oversight (together with the 30-Day Report recommendations, the “Task Force Recommendations”); and

**WHEREAS**, by Resolution No. 1568, dated November 18, 2020, the Board directed the Isaias Task Force, in coordination with PSEG Long Island, to submit an Implementation Plan to the Board of Trustees for each Task Force Recommendation; and

**WHEREAS**, by Resolution No. 1570, dated December 16, 2020, the Board adopted certain Implementation Plans for the Task Force Tier 1 Recommendations, and directed that PSEG Long Island to amend the remaining Tier 1 Implementation Plans and resubmit such plans to the Task Force for review at the Board’s January 2021 meeting; and

**WHEREAS**, the Task Force has submitted to the Board 10 Implementation Plans recommended for the Board’s approval; and

**WHEREAS**, the Task Force Recommendations include that if LIPA and PSEG Long Island renegotiate and cannot reach an agreement on acceptable reforms, or should there be a lack of progress to implement the Isaias Task Force Recommendations, the Board of Trustees consider the exercise of its rights to terminate the OSA with PSEG Long Island before 2025 due to the urgent issues identified by the Task Force’s investigation.

**NOW, THEREFORE, BE IT RESOLVED**, the Board hereby adopts Implementation Plans for the Task Force Tier 1 Recommendations attached hereto as **Exhibit “C”**; and

**BE IT FURTHER RESOLVED**, the Board hereby directs PSEG Long Island to amend the remaining Tier 1 and 2 Implementation Plans and resubmit such plans to the Task Force for review on or before Board’s February 2021 meeting; and

**BE IT FURTHER RESOLVED**, that the Board hereby extends the time to submit the Task Force 180-Day Final Report to a 270-Day Final Report due to the Board on or before its May 2021 meeting.

Dated: January 27, 2021



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# **PSEG Long Island**

# **Project Implementation Plan**

**for**

# **Isaias Task Force Recommendation Implementations**

# **Recommendation No. 4.04**

**Project Title:** Explore integrating the high-volume voice communications design into a more powerful all-encompassing call center design.

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## 1. Project Definition

This project includes efforts to modernize the PSEG LI Contact Center, replacing the existing premise based infrastructure with an industry leading cloud based contact center as a service (CCaaS) platform. As part of the assessment of providers and design of the target state architecture, consolidation of operations between the existing HVCA / PSEG LI Contact Center split and integration with parallel efforts to incorporate enhanced digital channels will be considered. The finalized design, schedule and outcomes of this implementation plan will be augmented to include such consolidations where deemed optimal to PSEG LI's operations.

### 1.1. Project Purpose, Objectives, and Success Criteria

#### *Project Objectives:*

The objectives of this project are to migrate the existing contact center environment to a modern solution that will allow the contact center to take advantage of current communications protocols and systems. The new solution will be designed to meet current day-to-day needs as well as be able to handle specified call volumes during storm events. The success of the project will be defined as meeting all documented and approved requirements by various stakeholders as verified through testing and user acceptance.

#### *Project End State and Success Criteria:*

Upgraded and modernized Long Island Contact Center solution and communications are deployed, migrated to and in production.

## 2. Project Deliverables:

Deliverable	Delivery Date	Comments
Requirements and High Level Design	2/12/2021	Likely to be revised after RFP and Vendor Selection Process. Will include operational changes / consolidations if deemed optimal
Low Level Technical Design	7/30/2021	
CCaaS Environment Build	1/7/2022	
User Acceptance Test Results	2/18/2022	
Final Sign Off	4/1/2022	

### 2.1. Assumptions, Dependencies, and Constraints

#### *2.1.1 Assumptions:*

- Project team will be available for design discussions and will have a designated resource who will confirm all decisions made for future improvements
- Existing work already completed for the proposed CCaaS project will be leveraged
- Vendor resources will be available to provide SME time to aid in the gathering of requirements, creating the design and specifications, etc.
- Procurement timelines will be expedited to meet project schedule
- Project will be approved to start immediately, will be funded and will not experience delays due to additional approvals

- Contact Center as a Service is an optimal model for PSEG LI over existing premise based model
- Target will be for CCaaS solution to handle storm volumes, without the need for a separate HVCA provider. Vendor responses, pricing and architecture considerations will ultimately determine whether or not this consolidation is pursued

**2.1.2 Dependencies:**

- PSEG LI Availability of external experts to assist in the design, planning, RFP creation and evaluation and implementation.
- Approval to start immediately and funds available to onboard SMEs

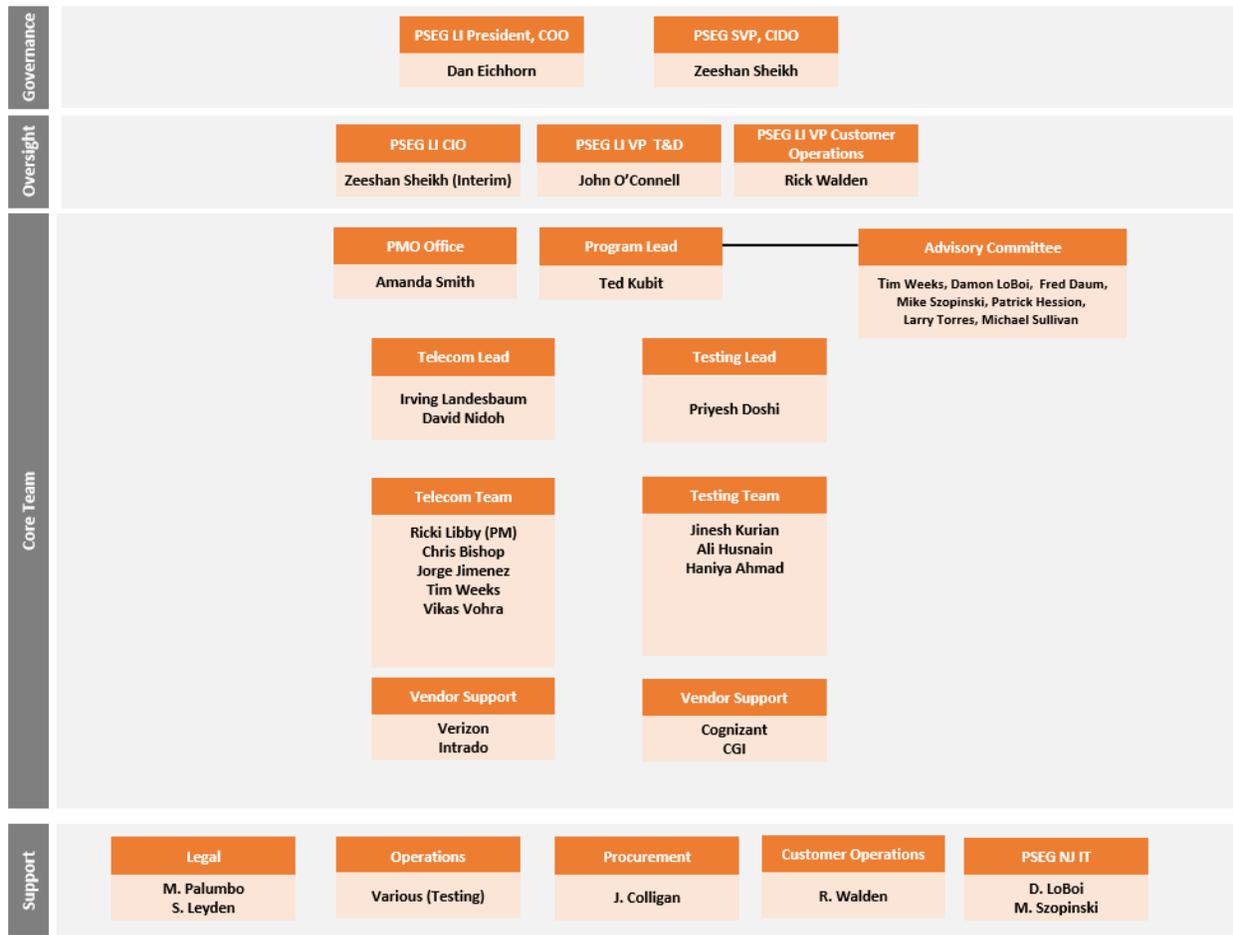
**2.1.3 Constraints:**

- The number of qualified resources with subject matter expertise.
- Competing projects and operational activities that further constrain available resources. Availability of vendor resources with requisite experience to engage quickly.

## **3. Project Structure**

### **3.1. Internal Project Organization**

The Telecom Team, Testing Team along with vendor support from other suppliers will implement this modernization project. The chart below shows the internal project organization and the groups responsible for the Telecom project:



**3.1.1 Roles and Responsibilities:**

Roles and responsibilities for the Telecom project are outlined in the table below:

Role	Name	Responsibilities
Steering Committee	Dan Eichhorn ( <i>Chair</i> ) Zeeshan Sheikh John O'Connell Rick Walden	<ul style="list-style-type: none"> <li>Championing the PSEG LI Storm Restoration initiative</li> <li>Establishing guiding principles for the project</li> <li>Ensuring project activities remained aligned with the guiding principles as <i>defined</i></li> <li>Providing guidance and input on <i>key project decisions</i></li> <li>Challenging the project team where appropriate</li> <li>Approving major <i>changes to the project's scope, objectives, timelines, costs, etc.</i></li> <li>Acting as the decision maker for issues requiring <i>escalation</i></li> <li>Removing institutional barriers when <i>they arise by serving as a project advocate</i></li> </ul>
PSEG LI CIO	Zeeshan Sheikh (Interim)	<ul style="list-style-type: none"> <li>Ensuring <i>workstreams adhere to guiding principles as defined by project leadership</i></li> <li>Managing issues and decision making</li> <li>Removing <i>obstacles that impede the success of the overall project</i> Providing <i>strategic guidance</i></li> <li>Challenging the project team where appropriate</li> <li>Approve procurement of external parties (as needed)</li> </ul>

Role	Name	Responsibilities
Advisory Committee Members	Tim Weeks Damon LoBoi Mike Szopinski Fred Daum Patrick Hession Larry Torres Michael Sullivan	<ul style="list-style-type: none"> <li>• Providing guidance and input on <i>key project decisions</i></li> <li>• Assisting in the procurement of external parties (as needed)</li> <li>• Removing obstacles that impede the success of the overall project</li> <li>• Providing subject matter expertise to the project</li> <li>• Challenging the <i>project team</i></li> </ul>
Team Lead	Kevin Planz <i>David Nidoh</i>	<ul style="list-style-type: none"> <li>• Drive workstream tasks and deliver recommendations for Solution Design Specification</li> <li>• Provide support for Testing</li> <li>• Aid in the development <i>functional requirements</i></li> <li>• Provide input on requirement / design</li> <li>• <i>Coordinating Business Resources to support the project</i></li> <li>• Key Point of contact to for questions from the vendor</li> <li>• Providing sign off for deliverables that require business <i>input/acceptance</i></li> <li>• Delivering the project on time and on budget</li> </ul>
Project Manager	Kevin Planz <i>Ricki Libby</i>	<ul style="list-style-type: none"> <li>• Reporting overall status of the project to Stakeholders and Program Leadership</li> <li>• Identifying and escalating resource issues</li> <li>• Providing status reports for delivery to internal and external stakeholders (LIPA, DPS)</li> <li>• Manage resources, <i>schedule, issues, risks and change requests</i></li> <li>• Process development, requirements definition,</li> <li>• Providing subject matter expertise to the <i>project</i></li> <li>• User Impact Analysis</li> <li>• <i>Facilitating workshops</i></li> </ul>
Performance Engineer	Sri Kanaparthi	<ul style="list-style-type: none"> <li>• Supporting Build/Test/Deploy Activities</li> <li>• Assist with Environment setup</li> <li>• Coordinating Development activities</li> <li>• Assist with Technical Design and Architecture</li> <li>• Assist with Transfer of Environments</li> </ul>
Business Lead	Chris Bishop	<ul style="list-style-type: none"> <li>• Process development, requirements definition, <i>functional design</i></li> <li>• Technical Design</li> <li>• Supporting vendor questions and workshops</li> <li>• <i>Testing Execution</i></li> </ul>
Test Lead	Sikder Islam	<ul style="list-style-type: none"> <li>• Test Script Development</li> <li>• Test Script Execution for Assembly / Unit Test</li> <li>• Test Execution</li> </ul>

### 3.2. Other Stakeholders

Identification of other internal and external project stakeholders is shown below:

Organization/Team	Name	Responsibilities
Long Island Power Authority	Mujib Lodhi, Rick Shansky	<ul style="list-style-type: none"> <li>• Overall oversight of the entire project portfolio</li> </ul>
Department of Public Service	Joseph Suich, Kevin Wisely	<ul style="list-style-type: none"> <li>• Overall oversight of the entire project portfolio</li> </ul>

## **4. Project Plan**

### **4.1. Project Work Plan**

More tactically, in order to achieve the objectives outlined in Section 2 of this document, PSEG LI has developed a strategic Project Plan comprised of the following activities:

Task	Recommendation	Pct Complete	Target Start Date	Target End Date
<b>Recommendation</b>	<b>Explore integrating the high-volume voice communications design into a more powerful all-encompassing call center design</b>	<b>0%</b>	<b>2/1/2021</b>	<b>04/01/2022</b>
Task	Develop Requirements and High-Level design	0%	Mon 2/1/21	Fri 2/12/21
Task	Develop RFP for release to CCaaS Vendors	0%	Mon 2/15/21	Fri 3/26/21
Task	RFP Selection Process	0%	Mon 3/29/21	Fri 5/28/21
Task	Internal Governance and Risk Review	0%	Mon 5/31/21	Fri 6/4/21
Task	Master Services Agreement and Statement of Work Drafted	0%	Mon 6/7/21	Fri 6/11/21
Task	Utility Review Board Presentation	0%	Mon 6/14/21	Fri 6/18/21
Task	Executed MSA and SOW back to Vendor	0%	Mon 6/21/21	Fri 7/2/21
Task	Assignment of Professional Services Team	0%	Mon 7/5/21	Fri 7/16/21
Task	Develop and Review Low Level Technical Design	0%	Mon 7/19/21	Fri 7/30/21
Task	CCaaS Environment Build	0%	Mon 8/2/21	Fri 12/3/21
Task	CCaaS QM and Survey Build	0%	Mon 12/6/21	Fri 12/17/21
	CCaaS WFM Build	0%	Mon 12/27/21	Fri 1/7/22
Milestone	CCaaS Environment Ready for Training and Acceptance Testing	0%	Fri 1/7/22	Fri 1/7/22
Task	Training	0%	Mon 1/10/22	Fri 1/21/22
Task	User Acceptance Testing	0%	Mon 1/24/22	Fri 2/18/22
Task	System Acceptance and Go/No Go for Go Live	0%	Mon 2/21/22	Fri 2/25/22
Milestone	System Approved for Go Live	0%	Fri 2/25/22	Fri 2/25/22
Task	Go Live Week	0%	Mon 2/28/22	Fri 3/4/22
Task	Stabilization Period	0%	Mon 3/7/22	Fri 4/1/22
Milestone	LIPA Task 4.04 Complete	0%	Fri 4/1/22	Fri 4/1/22

**4.2. Risk Management Plan**

The table below outlines the applicable risks and associated risk mitigations for the Telecom project.

Category	Project Risk	Mitigation
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<b>Resources</b>	No holistic solution owner from PSEG LI to oversee entirety of solution	PSEG LI to designate a resource to be the holistic oversight for entire solution
<b>Resources</b>	Availability of resources due to other Storm duty priorities	Careful prioritization of projects with LIPA recommendations as top priority in order to complete all tasks/milestones on time.
<b>Schedule / Cost</b>	Contract negotiation could delay project due to multiple vendor partners involved for making changes to the entire architecture	PSEG LI to expedite contract approvals and determine if there are options for performing some work internally
<b>Schedule / Cost</b>	Vendor delays cause the schedule to shift and key project milestones are not able to be met on time	Work with the vendor to quickly resolve impediments.
<b>Schedule / Cost</b>	Requirements not satisfied by existing CCAAS efforts	Aggressively work to hold to existing requirements gathered or adjust dates according before starting the project.
<b>Schedule / Cost</b>	Timely approval of the project not received	Gain project approval before starting the project and adjust schedule accordingly after project approval.
<b>Program Management</b>	Lack of Scope/Requirements control including changes needed to legacy IT systems	Lack of scope/requirements control is the leading cause of budget and schedule overruns for this scale of project. It will be critical to closely define project scope/requirements, quickly clarify any uncertainties as they arise, and escalate as required. Any changes in scope/requirements must be agreed-to by the executive steering committee.
<b>Program Management</b>	Additional recommendations for improvement are developed and will need to be added to this workstream	Additional recommendations that have activities similar to those addressed in this project will be identified and logically grouped within tracks. Resource requirements will be identified. Where necessary, contract resources will be hired to back fill normal job responsibilities
<b>Infrastructure</b>	Delays in equipment delivery and/or communications	Thorough project management and escalation procedures.

### 4.3. Issue Resolution Plan

Issues and risks will be identified by the PSEG LI Team and the PMO daily. These items will be logged in an issue/risk tracker. The information in the tracker will be reviewed by the steering committee each week. The steering committee will determine the appropriate actions (if necessary) to get the project on track. The issue/risk tracker will be used to track items to closure, identifying the resolution date and course of action taken.

### 4.4. LIPA Reporting Plan

Weekly status reports for all recommendations, containing project progress and documentation will be provided to LIPA by Zeeshan Sheikh.

## 5. Technical Execution Plan

### 5.1. Technical Approach

#### 5.1.1 Technical Improvements:

The entire call center infrastructure/solution will be replaced by migrating to a cloud based hosted solution. This will be a modernized call center solution allowing for the use of current IP based communications technologies that will allow maximum capability and flexibility once complete.

#### 5.1.2 Process Improvements:

In addition to the many technical improvements a series of process enhancements will also be implemented. The details and extent of improvements will be based on the solution selected but the goals are to improve processes related to resource management especially during storms.

### 5.2. Quality Assurance Plan

- 1 The team will adhere to the PSEG’s IT standards for the deployment of this project. PSEG LI IT SharePoint will be used as the document repository.
- 2 The deliverables will follow the following QA processes:
  - a. Team lead review and signoff
  - b. Peer Review (PSEG)
  - c. Subject Matter Advisor Review as necessary
  - d. PSEG Signoff by PSEGLI CIO and President & COO of PSEGLI
  - e. Independent Verification and Validation by LIPA CIO

### 5.3. Documentation Plan

Throughout the project lifecycle the implementation team will document and deliver the key deliverables as listed above in Section 2. The due date of each deliverable will be based off the Project Schedule as outlined in Section 4.1. A final Project Closure Document will be delivered once all LIPA Recommendations in this implementation plan are completed.

Project Artifacts	Description
Requirements and High-Level design	Business Requirements and High Level Architecture to be used in RFP Process
RFP	Request for Proposals from CCaaS Vendors in the industry. Document will include business requirements and high level design
Low Level Technical Design	Detailed Design documenting specific features, functions and configurations required for the CCaaS vendor solution
CCaaS Vendor MSA	Master Services Agreement to govern CCaaS Vendor relationship and subsequent statements of work with PSEG

<b>CCaaS Vendor SOW</b>	Statement of Work to cover CCaaS implementation
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## **Revision History**

<b>Name</b>	<b>Date</b>	<b>Reason for Changes</b>	<b>Version</b>
David Nidoh	1/13/2021	initial draft	1.0 draft 1

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# **PSEG Long Island**

# **Project Implementation Plan**

**for**

# **Isaias Task Force Recommendation Implementations**

# **Recommendation No. 4.05**

**Project Title:** Develop a more scalable Inbound Contact Center.

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## 1. Project Definition

This project is consolidated with recommendation 4.04 based on the very similar outcomes requested and the solution being proposed by PSEG LI. This includes efforts to modernize the PSEG LI Contact Center, replacing the existing premise based infrastructure with an industry leading cloud based contact center as a service (CCaaS) platform. Scalability will be a key element in the vendor selection and design of the new platform. Consolidation of operations between the existing HVCA / PSEG LI Contact Center split will be considered based on the scalability that can be achieved.

### 1.1. Project Purpose, Objectives, and Success Criteria

#### *Project Objectives:*

The objectives of this project are to migrate the existing contact center environment to a modern solution that will allow the contact center to take advantage of current communications protocols and systems. The new solution will be designed to meet current day-to-day needs as well as be able to handle specified call volumes during storm events. The success of the project will be defined as meeting all documented and approved requirements by various stakeholders as verified through testing and user acceptance.

#### *Project End State and Success Criteria:*

Upgraded and modernized Long Island Contact Center solution and communications are deployed, migrated to and in production.

## 2. Project Deliverables:

Deliverable	Delivery Date	Comments
Requirements and High Level Design	2/12/2021	Likely to be revised after RFP and Vendor Selection Process. Will include operational changes / consolidations if deemed optimal
Low Level Technical Design	7/30/2021	
CCaaS Environment Build	1/7/2022	
User Acceptance Test Results	2/18/2022	
Final Sign Off	4/1/2022	

### 2.1. Assumptions, Dependencies, and Constraints

#### *2.1.1 Assumptions:*

- Project team will be available for design discussions and will have a designated resource who will confirm all decisions made for future improvements
- Existing work already completed for the proposed CCaaS project will be leveraged
- Vendor resources will be available to provide SME time to aid in the gathering of requirements, creating the design and specifications, etc.
- Procurement timelines will be expedited to meet project schedule
- Project will be approved to start immediately, will be funded and will not experience delays due to additional approvals

- Contact Center as a Service is an optimal model for PSEG LI over existing premise based model
- Target will be for CCaaS solution to handle storm volumes, without the need for a separate HVCA provider. Vendor responses, pricing and architecture considerations will ultimately determine whether or not this consolidation is pursued

**2.1.2 Dependencies:**

- PSEG LI Availability of external experts to assist in the design, planning, RFP creation and evaluation and implementation.
- Approval to start immediately and funds available to onboard SMEs

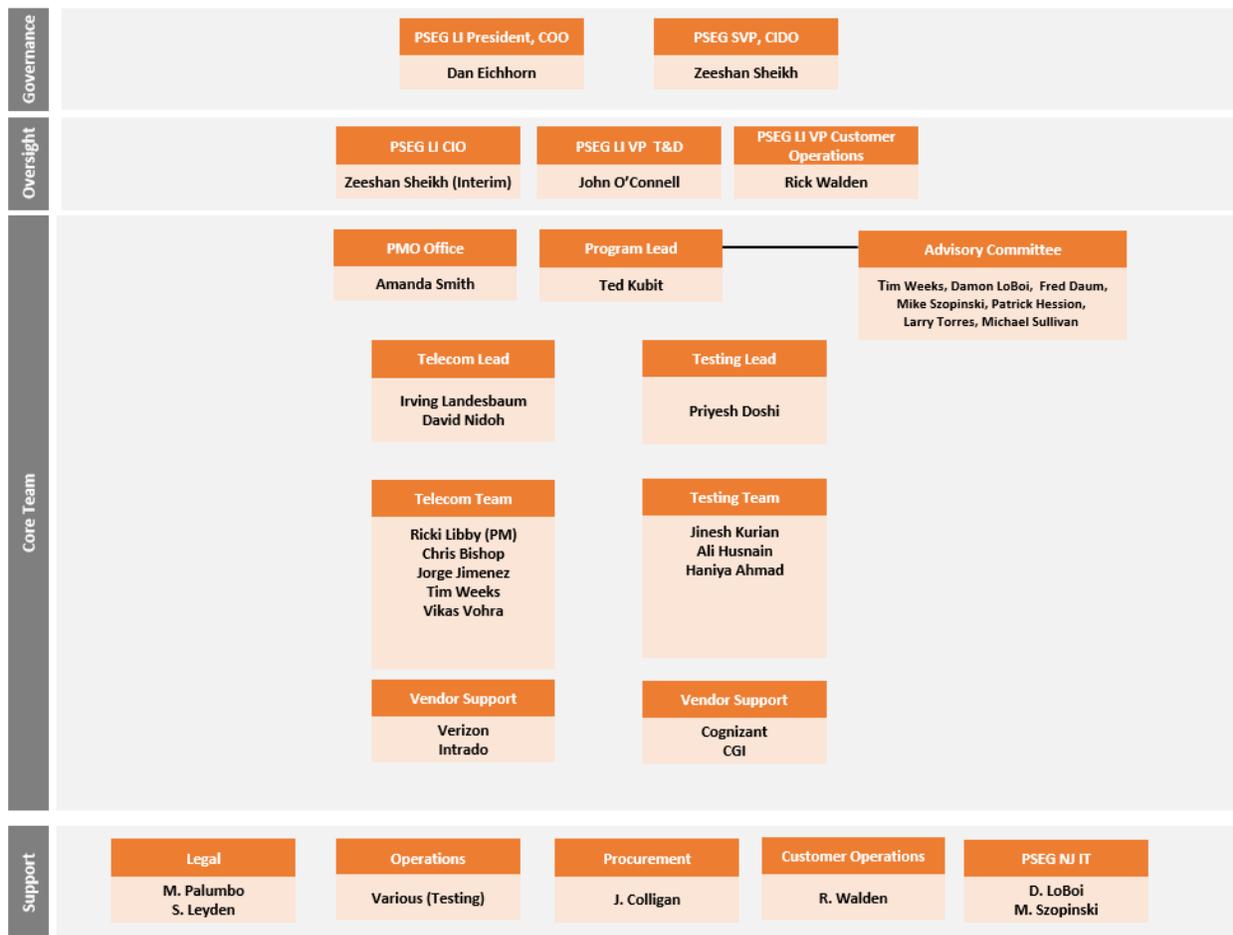
**2.1.3 Constraints:**

- The number of qualified resources with subject matter expertise.
- Competing projects and operational activities that further constrain available resources. Availability of vendor resources with requisite experience to engage quickly.

## **3. Project Structure**

### **3.1. Internal Project Organization**

The Telecom Team, Testing Team along with vendor support from other suppliers will implement this modernization project. The chart below shows the internal project organization and the groups responsible for the Telecom project:



### 3.1.1 Roles and Responsibilities:

Roles and responsibilities for the Telecom project are outlined in the table below:

Role	Name	Responsibilities
Steering Committee	Dan Eichhorn ( <i>Chair</i> ) Zeeshan Sheikh John O'Connell Rick Walden	<ul style="list-style-type: none"> <li>Championing the PSEG LI Storm Restoration initiative</li> <li>Establishing guiding principles for the project</li> <li>Ensuring project activities remained aligned with the guiding principles as <i>defined</i></li> <li>Providing guidance and input on <i>key project decisions</i></li> <li>Challenging the project team where appropriate</li> <li>Approving major <i>changes to the project's scope, objectives, timelines, costs, etc.</i></li> <li>Acting as the decision maker for issues requiring <i>escalation</i></li> <li>Removing institutional barriers when <i>they arise by serving as a project advocate</i></li> </ul>
PSEG LI CIO	Zeeshan Sheikh (Interim)	<ul style="list-style-type: none"> <li>Ensuring <i>workstreams adhere to guiding principles as defined by project leadership</i></li> <li>Managing issues and decision making</li> <li>Removing <i>obstacles that impede the success of the overall project</i> Providing <i>strategic guidance</i></li> <li>Challenging the project team where appropriate</li> <li>Approve procurement of external parties (as needed)</li> </ul>

Role	Name	Responsibilities
Advisory Committee Members	Tim Weeks Damon LoBoi Mike Szopinski Fred Daum Patrick Hession Larry Torres Michael Sullivan	<ul style="list-style-type: none"> <li>• Providing guidance and input on <i>key project decisions</i></li> <li>• Assisting in the procurement of external parties (as needed)</li> <li>• Removing obstacles that impede the success of the overall project</li> <li>• Providing subject matter expertise to the project</li> <li>• Challenging the <i>project team</i></li> </ul>
Team Lead	Kevin Planz <i>David Nidoh</i>	<ul style="list-style-type: none"> <li>• Drive workstream tasks and deliver recommendations for Solution Design Specification</li> <li>• Provide support for Testing</li> <li>• Aid in the development <i>functional requirements</i></li> <li>• Provide input on requirement / design</li> <li>• <i>Coordinating Business Resources to support the project</i></li> <li>• Key Point of contact to for questions from the vendor</li> <li>• Providing sign off for deliverables that require business <i>input/acceptance</i></li> <li>• Delivering the project on time and on budget</li> </ul>
Project Manager	Kevin Planz <i>Ricki Libby</i>	<ul style="list-style-type: none"> <li>• Reporting overall status of the project to Stakeholders and Program Leadership</li> <li>• Identifying and escalating resource issues</li> <li>• Providing status reports for delivery to internal and external stakeholders (LIPA, DPS)</li> <li>• Manage resources, <i>schedule, issues, risks and change requests</i></li> <li>• Process development, requirements definition,</li> <li>• Providing subject matter expertise to the <i>project</i></li> <li>• User Impact Analysis</li> <li>• <i>Facilitating workshops</i></li> </ul>
Performance Engineer	Sri Kanaparthi	<ul style="list-style-type: none"> <li>• Supporting Build/Test/Deploy Activities</li> <li>• Assist with Environment setup</li> <li>• Coordinating Development activities</li> <li>• Assist with Technical Design and Architecture</li> <li>• Assist with Transfer of Environments</li> </ul>
Business Lead	Chris Bishop	<ul style="list-style-type: none"> <li>• Process development, requirements definition, <i>functional design</i></li> <li>• Technical Design</li> <li>• Supporting vendor questions and workshops</li> <li>• <i>Testing Execution</i></li> </ul>
Test Lead	Sikder Islam	<ul style="list-style-type: none"> <li>• Test Script Development</li> <li>• Test Script Execution for Assembly / Unit Test</li> <li>• Test Execution</li> </ul>

### 3.2. Other Stakeholders

Identification of other internal and external project stakeholders is shown below:

Organization/Team	Name	Responsibilities
Long Island Power Authority	Mujib Lodhi, Rick Shansky	<ul style="list-style-type: none"> <li>• Overall oversight of the entire project portfolio</li> </ul>
Department of Public Service	Joseph Suich, Kevin Wisely	<ul style="list-style-type: none"> <li>• Overall oversight of the entire project portfolio</li> </ul>

## **4. Project Plan**

### **4.1. Project Work Plan**

More tactically, in order to achieve the objectives outlined in Section 2 of this document, PSEG LI has developed a strategic Project Plan comprised of the following activities:

Task	Recommendation	Pct Complete	Target Start Date	Target End Date
<b>Recommendation</b>	<b>Explore integrating the high-volume voice communications design into a more powerful all-encompassing call center design</b>	<b>0%</b>	<b>2/1/2021</b>	<b>04/01/2022</b>
Task	Develop Requirements and High-Level design	0%	Mon 2/1/21	Fri 2/12/21
Task	Develop RFP for release to CCaaS Vendors	0%	Mon 2/15/21	Fri 3/26/21
Task	RFP Selection Process	0%	Mon 3/29/21	Fri 5/28/21
Task	Internal Governance and Risk Review	0%	Mon 5/31/21	Fri 6/4/21
Task	Master Services Agreement and Statement of Work Drafted	0%	Mon 6/7/21	Fri 6/11/21
Task	Utility Review Board Presentation	0%	Mon 6/14/21	Fri 6/18/21
Task	Executed MSA and SOW back to Vendor	0%	Mon 6/21/21	Fri 7/2/21
Task	Assignment of Professional Services Team	0%	Mon 7/5/21	Fri 7/16/21
Task	Develop and Review Low Level Technical Design	0%	Mon 7/19/21	Fri 7/30/21
Task	CCaaS Environment Build	0%	Mon 8/2/21	Fri 12/3/21
Task	CCaaS QM and Survey Build	0%	Mon 12/6/21	Fri 12/17/21
	CCaaS WFM Build	0%	Mon 12/27/21	Fri 1/7/22
Milestone	CCaaS Environment Ready for Training and Acceptance Testing	0%	Fri 1/7/22	Fri 1/7/22
Task	Training	0%	Mon 1/10/22	Fri 1/21/22
Task	User Acceptance Testing	0%	Mon 1/24/22	Fri 2/18/22
Task	System Acceptance and Go/No Go for Go Live	0%	Mon 2/21/22	Fri 2/25/22
Milestone	System Approved for Go Live	0%	Fri 2/25/22	Fri 2/25/22
Task	Go Live Week	0%	Mon 2/28/22	Fri 3/4/22
Task	Stabilization Period	0%	Mon 3/7/22	Fri 4/1/22
Milestone	LIPA Task 4.05 Complete	0%	Fri 4/1/22	Fri 4/1/22

#### 4.2. Risk Management Plan

The table below outlines the applicable risks and associated risk mitigations for the Telecom project.

Category	Project Risk	Mitigation
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<b>Resources</b>	No holistic solution owner from PSEG LI to oversee entirety of solution	PSEG LI to designate a resource to be the holistic oversight for entire solution
<b>Resources</b>	Availability of resources due to other Storm duty priorities	Careful prioritization of projects with LIPA recommendations as top priority in order to complete all tasks/milestones on time.
<b>Schedule / Cost</b>	Contract negotiation could delay project due to multiple vendor partners involved for making changes to the entire architecture	PSEG LI to expedite contract approvals and determine if there are options for performing some work internally
<b>Schedule / Cost</b>	Vendor delays cause the schedule to shift and key project milestones are not able to be met on time	Work with the vendor to quickly resolve impediments.
<b>Schedule / Cost</b>	Requirements not satisfied by existing CCAAS efforts	Aggressively work to hold to existing requirements gathered or adjust dates according before starting the project.
<b>Schedule / Cost</b>	Timely approval of the project not received	Gain project approval before starting the project and adjust schedule accordingly after project approval.
<b>Program Management</b>	Lack of Scope/Requirements control including changes needed to legacy IT systems	Lack of scope/requirements control is the leading cause of budget and schedule overruns for this scale of project. It will be critical to closely define project scope/requirements, quickly clarify any uncertainties as they arise, and escalate as required. Any changes in scope/requirements must be agreed-to by the executive steering committee.
<b>Program Management</b>	Additional recommendations for improvement are developed and will need to be added to this workstream	Additional recommendations that have activities similar to those addressed in this project will be identified and logically grouped within tracks. Resource requirements will be identified. Where necessary, contract resources will be hired to back fill normal job responsibilities
<b>Infrastructure</b>	Delays in equipment delivery and/or communications	Thorough project management and escalation procedures.

### 4.3. Issue Resolution Plan

Issues and risks will be identified by the PSEG LI Team and the PMO daily. These items will be logged in an issue/risk tracker. The information in the tracker will be reviewed by the steering committee each week. The steering committee will determine the appropriate actions (if necessary) to get the project on track. The issue/risk tracker will be used to track items to closure, identifying the resolution date and course of action taken.

### 4.4. LIPA Reporting Plan

Weekly status reports for all recommendations, containing project progress and documentation will be provided to LIPA by Zeeshan Sheikh.

## 5. Technical Execution Plan

See Project Implementation Plan for Recommendation 4.04



## **Revision History**

<b>Name</b>	<b>Date</b>	<b>Reason for Changes</b>	<b>Version</b>
David Nidoh	1/13/2021	initial draft	1.0 draft 1

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# PSEG Long Island

## Project Implementation Plan for Isaias Task Force Recommendation Implementations

**Project Title: Municipal Portal Outreach Plan**

LIPA ID	Report	Task Force recommendations directly addressed in this plan
4.08	90 Day Report	Execute a communications plan with local emergency and municipal response officials to confirm municipalities' knowledge of the Municipal Portal and describe efforts to fix its operation from what they experienced during Isaias.

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## 1. Project Definition

Execute a communications plan with local emergency and municipal response officials to confirm municipalities' knowledge of the Municipal Portal and describe efforts to fix its operation from what they experienced during Isaias.

### 1.1. Project Purpose, Objectives, and Success Criteria

**Project Objectives:** The objective of this project is to re-engage in communications with Municipalities to affirm knowledge of the Municipal Portal. The communications will define the Municipal Portal; ensure each municipality has been provided with communications channels in preparation for emergency events, provide the link to the Municipal Portal, extend another opportunity to participate in training, and provide an overview of system upgrades.

**Project End State and Success Criteria:** All municipalities will receive an outreach email on Municipal Portal update status and receive an opportunity to participate in training during 2021. The success criteria will be to track and confirm that 100 percent of municipalities in the service territory have been sent outreach communications and 90 percent of municipalities have confirmed receipt of those communications.

## 2. Project Deliverables:

Deliverable	Delivery Date	Comments
Documentation of Completed Outreach to 100% of Municipalities	2/15/2021	
Confirmation of Receipt from 90% of Municipalities	3/15/2021	

### 2.1. Assumptions, Dependencies, and Constraints

#### *Assumptions:*

- External Affairs will assume that all systems are operational prior to sending outreach.
- Municipal Portal is fully tested and properly functioning.
- Plan for LIPA Recommendation 4.07 is prepared and submitted to LIPA.

#### *Dependencies and Constraints:*

- Addressing open IT issues affecting the Municipal Portal

### 3. Project Structure

#### 3.1. Internal Project Organization

Role	Name	Responsibilities
Project Sponsor	Christopher Hahn	<ul style="list-style-type: none"> <li>• Ensure work streams adhere to guiding principles as defined by project leadership</li> <li>• Manage issues and decision making</li> <li>• Remove obstacles that impede the success of the overall project</li> <li>• Providing strategic guidance</li> <li>• Challenge the project team where appropriate</li> </ul>
Project Managers	Joanna Weissman Robert Massaro	<ul style="list-style-type: none"> <li>• Ensure project activities remained aligned with the guiding principles as defined</li> <li>• Provide guidance and input on key project decisions</li> <li>• Challenge the project team where appropriate</li> <li>• Approve major changes to the project's scope, objectives, timelines, costs, etc.</li> <li>• Act as the decision maker for issues requiring escalation</li> <li>• Report project status</li> </ul>
IT PM	Edi Camila Sierra	<ul style="list-style-type: none"> <li>• Provide input on IT related items</li> <li>• Report project IT updates</li> <li>• Attend Project Meetings</li> </ul>
Customer Technology	Nayan Parikh	<ul style="list-style-type: none"> <li>• Provide input on Customer Technology IT items</li> <li>• Report project Customer Technology IT items</li> <li>• Attend Project Meetings</li> </ul>
Emergency Preparedness	Larry Torres	<ul style="list-style-type: none"> <li>• Attend Project Meetings</li> <li>• Collaborate regarding Outreach</li> </ul>

#### 3.2. Other Stakeholders

LIPA: Provides project review, oversight and approval. Municipal Officials: Receives Outreach Material, Confirms receipt of outreach material

Emergency Response Officials: Receives Outreach Material, Confirms receipt of outreach material.

Municipal Portal Vendor (Kubra): Provides information and support on Municipal Portal.

## 4. Project Plan

### 4.1. Project Work Plan

Deliverable	Delivery Date	Comments
External Affairs and IT teams meet to review system status and planned upgrades	1/4/2021	Met and discussed information needed
IT Team addresses open issue affecting MSTC and completes testing	1/15/2021	Testing may reveal other issues and require additional changes
PSEG Long Island completes project plan for LIPA recommendation 4.07	1/15/2021	
Create outreach materials documenting completed and planned systems upgrades and improvements	2/1/2021	
Finalize Outreach Email with information from Communications Plan and IT upgrades and improvements	2/7/2021	
Email Municipal Officials	2/8/2021	
Track confirmation of receipt of emails to Municipal Officials	2/8/2021-3/15/2021	
Update Municipal Portal Training Manual	2/15/2021	
Finalize Municipal Portal Training Presentation	2/22/2021	
Conduct Training and Benefits Discussion on the Municipal Portal	7/31/2021	Proactive training period. Each municipality will be offered a minimum of three opportunities to attend training.
Monthly DPS/LIPA Updates on Proactive Training	4/1/2021-8/1/2021	Each month, LIPA and the DPS will be provided with an update of those municipalities who have accepted, refused, or not responded to training opportunities.
Hold any requested Municipal Portal trainings	8/1/2021 – 12/31/2021	

### 4.2. Risk Management Plan

Project Risk	Mitigation
Testing of planned fixes may identify additional issues	<ul style="list-style-type: none"> <li>Partner with IT and Customer Technology to investigate and resolve issues.</li> <li>Adjust communication timeline to address issues identified in testing.</li> </ul>
PSEG Long Island IT update timeline	<ul style="list-style-type: none"> <li>Senior Executive involvement</li> <li>Good communication across all parties</li> <li>Early engagement</li> </ul>

**4.3. Issue Resolution Plan**

Project lead will keep track of action items.

Progress will be reported to Jason Goldsmith, overall project manager.

**4.4. LIPA Reporting Plan**

Share deliverables with LIPA by March 30.

**5. Technical Execution Plan**

**5.1. Technical Approach**

There are no technical approaches required beyond the steps outlined in the above project plan.

**5.2. Quality Assurance Plan**

LIPA and PSEG LI Leadership will be apprised of status to assure quality.

**5.3. Documentation Plan**

<b>Document</b>	<b>Created By</b>	<b>Reviewed By</b>	<b>Target Date</b>	<b>Dist.</b>
<b>Outreach Plan</b>	Joanna Weissman and Robert Massaro			
<b>Outreach Email Template</b>	Joanna Weissman and Robert Massaro			
<b>Outreach Email Confirmation Tracker</b>	Joanna Weissman and Robert Massaro			
<b>Monthly DPS/LIPA Updates on Proactive Training (April-August 2021)</b>	Joanna Weissman and Robert Massaro			

## **Revision History**

<b>Name</b>	<b>Date</b>	<b>Reason for Changes</b>	<b>Version</b>
Robert Massaro		initial draft	1.0 draft 1
Joanna Weissman/Rob Massaro	1/14/21	Updated schedule	1.0 draft 2

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# **PSEG Long Island**

## **Project Implementation Plan**

### **For Isaias Task Force Recommendation Implementations**

#### **Recommendation No. 4.17**

**Project Title: 4.17 Re-architect the inter-system message queuing applications for greater dynamic stability under highly demanding workloads\***

*\*This recommendation has been previously accepted with comments. The document has been updated to reflect comments received.*

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# 1. Project Definition

PSEG Long Island provides multiple digital channels to customers and stakeholders for both routine and storm and outage related communications. Routine communications include account, billing, and energy usage information; Storm and outage communications include downed wire and outage reporting, customer status and estimated restoration times; overall system status and service restoration activities; and pre-storm notifications.

The project goal is to verify a solution is in place to protect the OMS system from becoming inundated with customer calls in the event of a large storm with high numbers of outage reports. This project focuses on including queuing protection for the ESB along with setting up an OMS reporting database for digital channels.

Any mention of the “Digital Channels” in this document refers to the following channels:

- Kubra Notifi
- PSEG LI Mobile App
- IVR
- HVCA (High Volume Call App)
- PSEG Public website
- MyAccount Customer Portal
- Alexa/Google

## 1.1. Project Purpose, Objectives, and Success Criteria

### 1.1.1 Project Objectives:

The objectives of the project are:

1. Design and implement a solution that allows outage reports and requests from various digital channels to be queued up before being sent to OMS

### 1.1.2 Project End State and Success Criteria:

#### **End State:**

- The end state of the Digital Channels Enhancement project will be to verify queuing messages in the ESB are setup as asynchronous

#### **Success Criteria:**

- Success is defined as an operable solution, thoroughly tested and deployed in a production environment

## 2. Project Deliverables:

The following are the list of deliverables that will be delivered as part of the implementation:

Deliverable	Delivery Date	Comments
To Be Proposed Architecture	1/6/2021	Create architecture for proposed plan
Detailed Roadmap and Implementation Plan	1/15/21	Create detailed roadmap and implementation plan for solution 4.17

Functional Design – ESB Queueing Layer and Flow Control	2/25/21	Create a functional design – ESB Queueing Layer
Technical Design - ESB Queueing layer	3/24/2021	Create a technical design – ESB Queueing layer
All configuration items in CMDB.	7/5/2021	Per our understanding, LIPA requests any configuration to be added in service now and tracked with this deliverable

The Project Management Office (PMO) will create and maintain the following across all IT Implementation Plans:

- Integrated Project Plan
- Status Reports
- Risks and Issues Log

## 2.1. Assumptions, Dependencies, and Constraints

### 2.1.1 Assumptions:

- PSEG LI has the necessary resources in place from an internal and third-party standpoint to complete all of the objectives including implementation work as needed
- The project team will move forward to implement recommendations and enhanced solutions for the existing PSEG LI framework and vendor partnerships
- Vendor resources will be available to provide SME time and answer any questions for respective applications
- All modifications to the webservice will happen on Sonic ESB first with a migration to MuleSoft ESB on a future date determined through design sessions
- PSEG LI will track changes made to the project plan for auditing purposes. This will allow for tracking impacts to schedule. Storms or other external factors will be accounted for (workarounds or extensions need to be included in the audit trail)
- Will leverage current ESB webservice to provide customer messaging
- Assuming minimal modifications to customer messaging
- Kubra messaging changes can be done as part of existing service agreement
- Intrado messaging changes can be done as part of the service agreement
- Team will deploy changes on CGI OMS 5.5 first and re-factor for CGI OMS 6.7 post go live

### 2.1.2 Dependencies:

- PSEG LI has a dependency on XTENSIBLE for performing changes on the Sonic ESB
- PSEG LI has a dependency on CGI to help design the ESB queue to insulate CGI OMS
- PSEG LI has a dependency on the OMS team to stand up the OMS testing environment and make it available for end to end testing activities requiring the digital channels

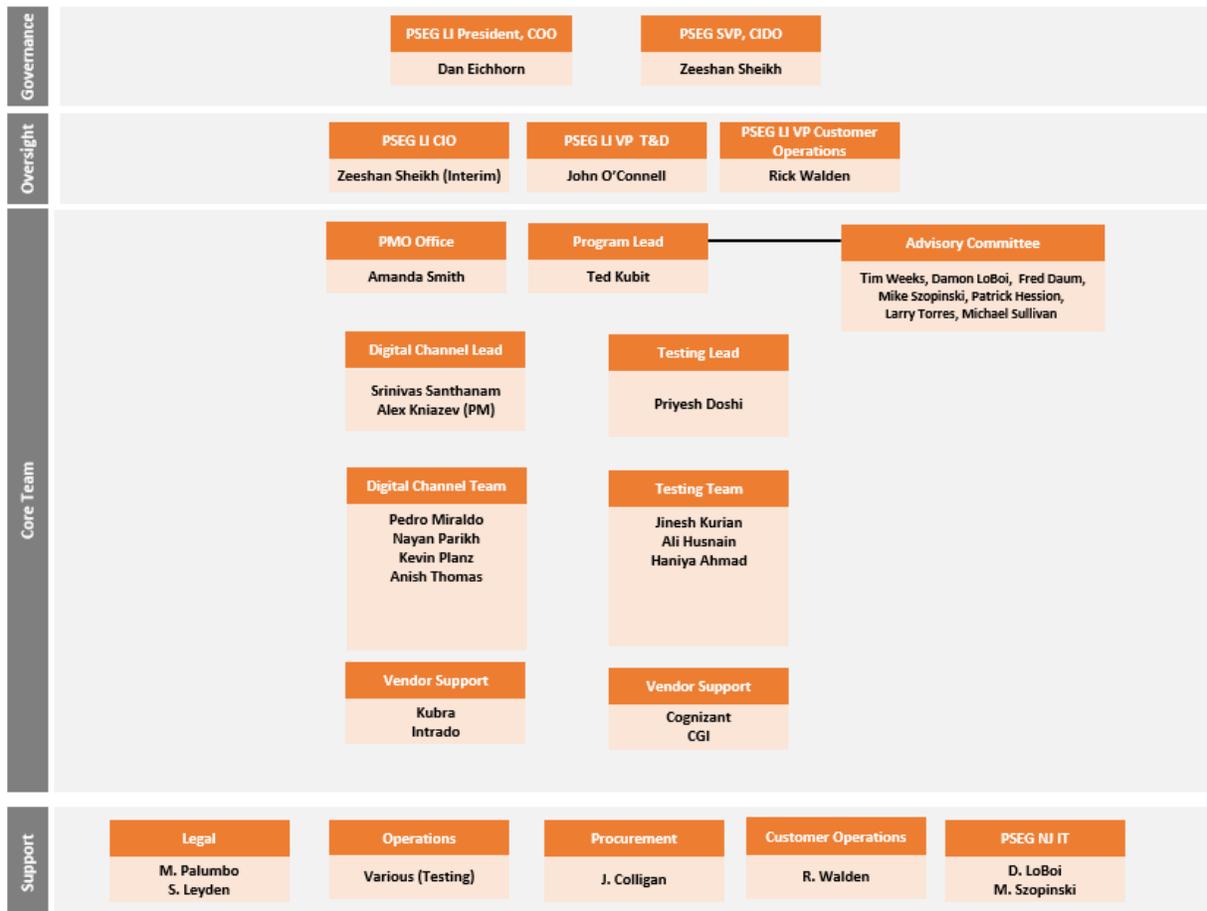
### 2.1.3 Constraints:

- Competing projects at PSEG LI could affect delivery timelines
- Storm season will be a priority for PSEG LI resources who will be unavailable when performing storm roles or resolving current production issues

### 3. Project Structure

#### 3.1. Internal Project Organization

The Digital Channels Team, Testing Team along with vendor support from Kubra, Intrado, and Cognizant will implement the Digital Channels project. The chart below shows the internal project organization and the groups responsible for the Digital Channels project:



##### 3.1.1 Roles and Responsibilities:

Roles and responsibilities for the Digital Channels Enhancement project are outlined in the table below:

Role	Name	Responsibilities
Steering Committee	Dan Eichhorn ( <i>Chair</i> ) Zeeshan Sheikh John O’Connell Rick Walden	<ul style="list-style-type: none"> <li>Championing the PSEG LI Storm Restoration initiative</li> <li>Establishing guiding principles for the project</li> <li>Ensuring project activities remained aligned with the guiding principles as defined</li> <li>Providing guidance and input on key project decisions</li> <li>Challenging the project team where appropriate</li> </ul>

		<ul style="list-style-type: none"> <li>• Approving major changes to the project’s scope, objectives, timelines, costs, etc.</li> <li>• Acting as the decision maker for issues requiring escalation</li> <li>• Removing institutional barriers if and when they arise by serving as a project advocate</li> </ul>
Leadership	PSEG LI CIO - Zeeshan Sheikh (Interim)	<ul style="list-style-type: none"> <li>• Ensuring workstreams adhere to guiding principles as defined by project leadership</li> <li>• Managing issues and decision making</li> <li>• Removing obstacles that impede the success of the overall project</li> <li>• Providing strategic guidance</li> <li>• Challenging the project team where appropriate</li> <li>• Approve procurement of external parties (as needed)</li> </ul>
Advisory Committee Members	Tim Weeks Damon LoBoi Mike Szopinski Fred Daum Patrick Hession Larry Torres Michael Sullivan	<ul style="list-style-type: none"> <li>• Providing guidance and input on key project decisions</li> <li>• Assisting in the procurement of external parties (as needed)</li> <li>• Removing obstacles that impede the success of the overall project</li> <li>• Providing subject matter expertise to the project</li> <li>• Challenging the project team where appropriate</li> </ul>
Digital Channel Lead	Srinivas Santhanam / Alex Kniazev (ACN)	<ul style="list-style-type: none"> <li>• Drive workstream tasks and deliver recommendations for Solution Design Specification</li> <li>• Provide support for Testing</li> <li>• Aid in the development functional requirements</li> <li>• Provide input on requirement / design</li> <li>• Coordinating Business Resources to support the project</li> <li>• Key Point of contact to for questions from the HVCA IVR vendor, Outage Map vendor and Xtensible Team</li> <li>• Providing sign off for deliverables that require business input/acceptance</li> <li>• Delivering the Digital Channels project on time and on budget</li> </ul>
Project Manager	Kevin Planz	<ul style="list-style-type: none"> <li>• Reporting overall status of the project to Stakeholders and Program Leadership</li> <li>• Identifying and escalating resource issues</li> <li>• Providing status reports for delivery to internal and external stakeholders (LIPA, DPS)</li> <li>• Manage resources, schedule, issues, risks and change requests</li> <li>• Process development, requirements definition,</li> <li>• Providing subject matter expertise to the project</li> <li>• User Impact Analysis</li> <li>• Facilitating workshops</li> </ul>
Performance Engineer	Sri Kanaparthi	<ul style="list-style-type: none"> <li>• Supporting Build/Test/Deploy Activities</li> <li>• Assist with Environment setup</li> <li>• Coordinating Development activities</li> <li>• Assist with Technical Design and Architecture</li> <li>• Assist with Transfer of Environments</li> </ul>
Technical Architect	Pedro Miraldo	<ul style="list-style-type: none"> <li>• Supporting Build/Test/Deploy Activities</li> <li>• Environment setup</li> <li>• Assist in the configuration of the Digital Channels</li> <li>• Coordinating Development activities</li> <li>• Technical Design</li> <li>• Testing Lead</li> <li>• Transfer of Environments</li> </ul>

Business Lead	Nayan Parikh	<ul style="list-style-type: none"> <li>• Process development, requirements definition, functional design</li> <li>• Technical Design</li> <li>• Supporting vendor questions and workshops</li> <li>• Testing Execution</li> </ul>
Test Lead	Sikder Islam	<ul style="list-style-type: none"> <li>• Test Script Development</li> <li>• Test Script Execution for Assembly / Unit Test</li> <li>• Test Execution</li> </ul>
Environment Lead	Anish Thomas	<ul style="list-style-type: none"> <li>• Technical Design development</li> <li>• Environment design support</li> </ul>
Test Project Manager	Priyesh Doshi	<ul style="list-style-type: none"> <li>• Reporting overall testing status of the project to Stakeholders and Program Leadership</li> <li>• Identifying and escalating resource issues</li> <li>• Developing Testing Dashboard to accurately display current test execution</li> <li>• Manage resources, schedule, issues, risks and change requests</li> <li>• Providing testing subject matter expertise to the project</li> <li>• Defect Management</li> </ul>

### 3.2. Other Stakeholders

Identification of other internal and external project stakeholders is shown below:

Organization/Team	Name	Responsibilities
Long Island Power Authority	Mujib Lodhi, Rick Shansky,	<ul style="list-style-type: none"> <li>• Overall oversight of the entire project portfolio</li> </ul>
Department of Public Service	Joseph Suich, Kevin Wisely	<ul style="list-style-type: none"> <li>• Overall oversight of the entire project portfolio</li> </ul>

## 4. Project Plan

### 4.1. Project Work Plan

LIPA ID	Type	Task Name	Current Status	% Complete	Start	Finish
4.17	Recommendation	<b>Digital Re-architect the inter-system message queuing applications for greater dynamic stability under highly demanding workloads.</b>	In progress	8%	Fri 11/13/20	Fri 7/9/21
4.17	Subtask	Analyze conceptual architecture view for the inter system message queuing applications	Complete	100%	Mon 1/4/21	Fri 1/8/21
4.17	Subtask	Host Design Sessions to produce future state architecture for inter-system message queuing application	Complete	100%	Mon 1/4/21	Fri 1/8/21
4.17	Task	Tier 1	In Progress	75%	Wed 1/6/21	Fri 1/15/21
4.17	Subtask	Preliminary Review of Tier 1 implementation plan responses (align on response and direction)	Complete	100%	Wed 1/6/21	Wed 1/6/21
4.17	Subtask	Internal PSEG approval of proposed architecture	Complete	100%	Fri 1/15/21	Fri 1/15/21
4.17	Subtask	Submission date of the Tier 1 implementation plan responses to LIPA	In Progress	75%	Fri 1/15/21	Fri 1/15/21
4.17	Subtask	Explore asynchronous messaging to ESB from digital channels	In Progress	25%	Mon 1/11/21	Fri 1/22/21
4.17	Subtask	Explore dynamic adjustment of time out settings across channels	In Progress	15%	Mon 1/11/21	Fri 1/22/21
4.17	Subtask	Create Detailed Roadmap and Implementation plan	In Progress	75%	Mon 1/11/21	Fri 1/15/21
4.17	Subtask	Identify Xtensible resources	Complete	100%	Mon 1/11/21	Mon 1/11/21
4.17	Subtask	Identify impacts for additional resources (meet with Xtensible for Intrado/Kubra etc.)	In Progress	25%	Mon 1/11/21	Fri 1/15/21
4.17	Subtask	Identify impacts for F5 networking	Not Started	0%	Mon 1/11/21	Fri 1/15/21
4.17	Milestone	<i>MS: Procure resources</i>	<i>Not Started</i>	<i>0%</i>	<i>Fri 1/15/21</i>	<i>Fri 1/15/21</i>
4.17	Milestone	<i>MS: Detailed Roadmap and Implementation plan</i>	<i>Not Started</i>	<i>0%</i>	<i>Fri 1/15/21</i>	<i>Fri 1/15/21</i>
4.17	Design Phase	<b>Design Phase</b>	<b>Not Started</b>	<b>0%</b>	Thu 1/28/21	Wed 2/17/21
4.17	Task	Create Functional Design - ESB Queueing Layer and flow control	Not Started	0%	Thu 1/28/21	Wed 2/17/21
4.17	Subtask	Revisit customer messaging requirements with business for all channels	Not Started	0%	Thu 1/28/21	Wed 2/3/21
4.17	Subtask	Design ESB queuing layer to work with digital channel vendors and CGI	Not Started	0%	Thu 2/4/21	Wed 2/17/21
4.17	Subtask	Define error handling for failures/monitoring	Not Started	0%	Thu 2/18/21	Wed 2/24/21
4.17	Subtask	Create RTM document	Not Started	0%	Thu 1/28/21	Wed 2/17/21
4.17	Milestone	<i>MS: RTM Documentation complete/ LIPA Review</i>	<i>Not Started</i>	<i>0%</i>	<i>Wed 2/17/21</i>	<i>Wed 2/17/21</i>

4.17	Milestone	MS: PSEG/LIPA review	Not Started	0%	Thu 2/25/21	Thu 2/25/21
4.17	<b>Build / Development phase</b>	<b>Build / Development phase</b>	<b>In progress</b>	<b>4%</b>	Fri 11/13/20	Wed 3/24/21
4.17	Subtask	Develop ESB queuing and flow control	Not Started	0%	Thu 2/25/21	Wed 3/24/21
4.17	Subtask	Implement messaging changes (if any)	Not Started	0%	Thu 2/25/21	Wed 3/3/21
4.17	Subtask	Create Technical Design - ESB Queuing layer and flow control	Not Started	0%	Thu 2/25/21	Wed 3/24/21
4.17	Milestone	MS: Build Complete	Not Started	0%	Wed 3/24/21	Wed 3/24/21
4.17	Subtask	Get Outages Webservice improvement	Complete	100%	Fri 11/13/20	Fri 11/13/20
4.17	Subtask	Outage Hub View Refactoring to improve performance	Complete	100%	Fri 11/13/20	Fri 11/13/20
4.17	<b>Test Phase</b>	<b>Test phase</b>	<b>Not Started</b>	<b>0%</b>	<b>Wed 3/17/21</b>	<b>Fri 5/28/21</b>
4.17	Subtask	Functional Testing	Not Started	0%	Wed 3/17/21	Tue 3/30/21
4.17	Subtask	SIT / UAT Testing and defect resolution	Not Started	0%	Mon 4/5/21	Fri 4/23/21
4.17	Subtask	Performance Testing and defect resolution	Not Started	0%	Thu 3/25/21	Wed 4/14/21
4.17	Subtask	Penetration testing and data security review and approval of Build (Code)	Not Started	0%	Thu 3/25/21	Wed 4/14/21
4.17	Subtask	Leverage Recommendation 4.12 - Perform a holistic test simulating calls from all channels to verify time out settings do not impact one another	Not Started	0%	Fri 1/22/21	Fri 1/22/21
4.17	Subtask	Get Outages Webservice improvement testing	Not Started	0%	Fri 1/22/21	Fri 1/22/21
4.17	Subtask	Test CGI Webservice payload reduction	Not Started	0%	Fri 1/22/21	Fri 1/22/21
4.17	Subtask	Test outage hub view refactoring	Not Started	0%	Fri 1/22/21	Fri 1/22/21
4.17	Subtask	Go/No-Go for 5.5	Not Started	0%	Thu 4/15/21	Thu 4/15/21
4.17	Subtask	Solution Deployment 5.5	Not Started	0%	Fri 4/16/21	Fri 4/16/21
4.17	Subtask	Refactor for OMS 6.7	Not Started	0%	Thu 5/13/21	Wed 5/19/21
4.17	Subtask	Solution Deployment 6.7	Not Started	0%	Thu 5/20/21	Fri 5/21/21
4.17	Subtask	Regression test for OMS 6.7	Not Started	0%	Mon 5/24/21	Fri 5/28/21
4.17	Subtask	Change Management	Not Started	0%	Thu 3/25/21	Wed 3/31/21
4.17	Subtask	Warranty Period	Not Started	0%	Mon 4/19/21	Fri 7/9/21

### 4.2. Risk Management Plan

The table below outlines the applicable risks and associated risk mitigations for the Digital Channels project.

Category	Project Risk	Mitigation
Resources	Resource constraints from Digital team due to competing projects	Assign and commit business and IT resources and verify they are available to support this project. As necessary, hire contract resources to back fill normal job responsibilities
Resources	No holistic solution owner from PSEG LI to oversee entirety of solution	PSEG LI to designate a resource to be the holistic oversight for entire solution
Resources	Availability of resources due to other Storm duty priorities	Careful prioritization of projects with LIPA recommendations as top priority in order to complete all tasks/milestones on time
Schedule / Cost	Contract negotiation could delay project due to multiple vendor partners involved for making changes to the entire architecture	PSEG LI to expedite contract approvals and determine if there are options for performing some work internally
Schedule / Cost	Vendor delays cause the schedule to shift and key project milestones are not able to be met on time	Work with the vendor to quickly resolve impediments
Schedule / Cost	The activities outlined in the Digital Channels project become more complex than anticipated	Review the additional work required to complete the project with the steering committee. Add the scope required complete the project to the implementation plan. Clearly identify the steps that will be taken to anticipate this complexity in future projects
Program Management	Lack of Scope/Requirements control including changes needed to legacy IT systems	Lack of scope/requirements control is the leading cause of budget and schedule overruns for this scale of project. It will be critical to closely define project scope/requirements, quickly clarify any uncertainties as they arise, and escalate as required. Any changes in scope/requirements must be agreed-to by the executive steering committee
Program Management	Additional recommendations for improvement are developed and will need to be added to this workstream	Additional recommendations that have activities similar to those addressed in this project will be identified and logically grouped within tracks. Resource requirements will be identified. Where necessary, contract resources will be hired to back fill normal job responsibilities

### 4.3. Issue Resolution Plan

Issues and risks will be identified by the PSEG LI Team and the PMO daily. These items will be logged in an issue/risk tracker. The information in the tracker will be reviewed by the steering committee each week. The steering committee will determine the appropriate actions (if necessary) to get the project on track. The issue/risk tracker will be used to track items to closure, identifying the resolution date and course of action taken.

#### 4.4. LIPA Reporting Plan

Weekly status reports for all recommendations, containing project progress and documentation will be provided to LIPA by Zeeshan Sheikh.

### 5. Technical Execution Plan

#### 5.1. Technical Approach

##### 5.1.1 Configuration of ESB webservices:

*For any changes to configuration of webservices of applications, vendors will be contacted when needed and internal infrastructure will be adjusted accordingly. Testing will be executed to verify changes are working as intended.*

Here is the list of known differences / enhancements that will be in ESB QA that are not yet in production:

- ManageTroubleTicket
  - Container memory allocation increased from 1GB to 2GB.
  - Maximum number of connections to ESB service increased from 5 to 25.
  - Maximum number of connections to OMS services increased from 5 to 25.
  - Timeout setting for OMS service connection (time ESB waits for available OMS service connection) reduced from 30 to 1.5 seconds.
  - Timeout setting for OMS service response (time ESB waits for OMS service response) reduced from 30 to 12 seconds.
- ManageCustomerAccount
  - Container memory allocation increased from 1 GB to 2 GB.
  - Maximum number of connections to ESB service increased from 5 to 25.
  - Maximum number of connections to Kubra Notifi web services increased from 5 to 25.
  - Timeout setting for Kubra service connection (time ESB waits for available Kubra service connection) reduced from 30 to 1.5 seconds.
  - Timeout setting for Kubra service response (time ESB waits for Kubra service response) reduced from 30 to 12 seconds.
  - Timeout setting for mainframe response (time ESB waits for mainframe response) reduced from 30 to 12 seconds.
  - RCCP/GridX changes -- not performance issue plus or minus, just a noted difference.

**5.1.2 Configuration of applications** - Here are the time out changes being made to various digital channels in coordination with ESB changes.

Channel	Current in Production	Settings to be Tested
MyAccount web (Sitecore)	30 seconds	10 seconds – Gettroubleshoot 10 seconds – Submittroubleshoot

NuanceIVR	15 seconds	15 seconds
TFCC IVR	6 seconds (live call) 120 seconds (backup trouble ticket submission)	6 seconds (live call) 120 seconds (backup trouble ticket submission)
Voice Assistance (Alexa/Google Home)	8 seconds	8 seconds
My Account Mobile App	15 seconds – Gettroubleticket 20 seconds – Submittroubleticket	15 seconds – Gettroubleticket 20 seconds – Submittroubleticket
Kubra Texting (iFactorSL)	5 seconds – Gettroubleticket (current) 5 seconds – Submittroubleticket (current)	10 seconds – Gettroubleticket 10 seconds – Submittroubleticket <i>This will depend on Kubra standing up a performance testing environment.</i>
Kubra Outage Map	10 minutes - timeout 15 minutes - refresh	25 minute - time out 30 minute - refresh <i>This will depend on Kubra standing up a performance testing environment</i>
CGI OMS	2 minutes default <b>Note:</b> this cannot be done per individual webservice but this would only apply to Gettroubleticket & Submittroubleticket	Please confirm the timeout settings for the CGI web services.
ESB	30-60 seconds – Gettroubleticket (current) 30-60 seconds – Submittroubleticket (current)	<ul style="list-style-type: none"> <li>• ManageTroubleTicket <ul style="list-style-type: none"> <li>○ Timeout setting for OMS service connection (time ESB waits for available OMS service connection) reduced from 30 to 1.5 seconds.</li> <li>○ Timeout setting for OMS service response (time ESB waits for OMS service response) reduced from 30 to 12 seconds.</li> </ul> </li> <li>• ManageCustomerAccount <ul style="list-style-type: none"> <li>○ Timeout setting for Kubra service connection (time ESB waits for available Kubra service connection) reduced from 30 to 1.5 seconds.</li> <li>○ Timeout setting for Kubra service response (time ESB waits for Kubra service response) reduced from 30 to 12 seconds.</li> </ul> </li> </ul>

		<ul style="list-style-type: none"> <li>○ Timeout setting for mainframe response (time ESB waits for mainframe response) reduced from 30 to 12 seconds.</li> <li>• Incident.Getoutages             <ul style="list-style-type: none"> <li>○ Timeout setting increased from 30 to 55 minutes.</li> </ul> </li> </ul>
F5	Universal time out	Universal time out

**5.1.3 Changes to webservices:**

PSEGLI customer facing systems (e.g. IVR, Texting, etc.) do not directly interact with OMS web services. They interact with the canonical ESB web service called ManageTroubleTicket. This service has two operations, SubmitTroubleTicket and GetTroubleTicket. SubmitTroubleTicket invokes CGI OMS web service InboundCallService.CreateCall. The interaction is fully synchronous today so the customer facing system does not get a response until the ESB service has received a response (or timed out waiting for one) and converted it to the SubmitTroubleTicket response message. Typically, customer facing systems wait 5-10 seconds for the response before determining that it failed and relaying that failure message to the customer.

SubmitTroubleTicket will be refactored to provide an immediate response to the consumer (customer facing systems) while queuing up request for asynchronous metered flow to CGI OMS CreateCall API. This will enable the OMS system to not be overwhelmed with incoming requests as the ESB SubmitTroubleTicket process will only send to OMS at a rate that it can handle.

This solution accomplishes a few things:

- Provides protection for the OMS in cases where the incoming trouble ticket submissions cannot be processed

Allows all channels to respond quickly to customer interaction with “success”

- This should both allow for a better customer experience and reduce the number of repeat trouble ticket submissions
- Makes sure all channels trouble ticket submissions are handled in a consistent way
- Does so without requiring any changes to the customer facing systems
- **Note:** messaging changes will need to be explored.

The flow for ManageTroubleTicket.GetTroubleTicket was also reviewed and found not to be conducive to an asynchronous pattern or a hybrid pattern as, typically, the customer is waiting for a response for the status of their outage. There are improvements to that flow being explored but that exploration no longer includes consideration of an asynchronous mode.

**5.1.4 Changes to Infrastructure:**

Leveraging existing capabilities within PSEG LI ESB.

**5.2. Quality Assurance Plan**

**5.2.1 QA Methodology:**

- The team will adhere to the PSEG’s IT standards for the deployment of this project. PSEG LI IT SharePoint will be used as the document repository

- The deliverables will follow the following QA processes:
  - Team lead review and signoff
  - Peer Review (PSEG)
  - Subject Matter Advisor Review as necessary
  - PSEG Signoff by PSEGLI CIO and President & COO of PSEGLI
  - Independent Verification and Validation by LIPA CIO
- An individual test plan will be created, and for this recommendation it will include the following: Scope of testing, Test Criteria, Tests to be performed (e.g.: Functional, Acceptance, Regression, Performance Testing, End to End)
- Test plan and test results will be signed off by PSEGLI CIO and President & COO of PSEGLI, and shared with LIPA upon completion

### 5.2.2 Test Scope:

Testing of incoming calls from a future storm will incorporate the following digital channels:

Channel	Test Plan (High Level)	Test Outcome
<b>Kubra Notifi</b>	Simulate incoming outage calls from this channel into OMS	Verify ESB is able to queue the incoming calls
<b>PSEG LI Mobile App</b>	Simulate incoming outage calls from this channel into OMS	Verify ESB is able to queue the incoming calls
<b>IVR</b>	Simulate incoming outage calls from this channel into OMS	Verify ESB is able to queue the incoming calls
<b>HVCA</b>	Simulate incoming outage calls from this channel into OMS	Verify ESB is able to queue the incoming calls
<b>PSEG corporate website</b>	Simulate incoming outage calls from this channel into OMS	Verify ESB is able to queue the incoming calls
<b>MyAccount Customer Portal</b>	Simulate incoming outage calls from this channel into OMS	Verify ESB is able to queue the incoming calls
<b>Alexa/Google</b>	Simulate incoming outage calls from this channel into OMS	Verify ESB is able to queue the incoming calls

ESB must be capable of handling large call volumes (to be defined in threshold documentation) and must be able to place those requests in a queue to be relayed to OMS. Testing must be done across multiple channels providing input at one time to verify real storm conditions are met and performance is not impacted with multiple reporting methods.

### 5.3. Documentation Plan

Throughout the project lifecycle the implementation team will document and deliver the key deliverables as listed above in Section 2. The due date of each deliverable will be based off the Project Schedule as outlined in Section 4.1. A final Project Closure Document will be delivered once all LIPA Recommendations in this implementation plan are completed.

Deliverable	Delivery Date	Comments
To Be Proposed Architecture	1/6/2021	Create architecture for proposed plan
Detailed Roadmap and Implementation Plan	1/15/21	Create detailed roadmap and implementation plan for solution 4.17
Functional Design – ESB Queueing Layer and Flow Control	2/25/21	Create a functional design – ESB Queueing Layer
Technical Design - ESB Queueing layer	3/24/2021	Create a technical design – ESB Queueing layer

All configuration items in CMDB.	7/5/2021	Per our understanding, LIPA requests any configuration to be added in service now and tracked with this deliverable
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## **Revision History**

<b>Name</b>	<b>Date</b>	<b>Reason for Changes</b>	<b>Version</b>
Ali Husnain	12/9/2020	Initial draft	1.1
Alexander Kniazev	12/9/2020	Updated test criteria and project scope	1.2
Alexander Kniazev/Ali Husnain	12/10/2020	Rewrite to address individual recommendation with updates to the project plan	1.3

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# **PSEG Long Island**

## **Project Implementation Plan**

for

### **Isaias Task Force Recommendation Implementations**

### **Recommendation No. 4.19**

**Project Title: As part of storm preparation ensure that all application error and debug conditions have been cleared and the system is operating normally**

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## 1. Project Definition

The OMS project is focused on improving the performance and reliability of the OMS and its ecosystem. The objectives of the recommendation 4.19 is to ensure that the procedure for clearing the application error and debug conditions and the system is operating normally is clearly documented and executed in preparation for storm conditions.

Major deliverables include the documentation of an approved Pre-Storm checklist with procedure for disabling debugging clearing error logs for OMS support team operations.

### ***Project Objectives:***

Develop procedure and process for the OMS support team to execute as part of the pre-storm checklist for disabling debugging and clearing application error logs.

### ***Project End State and Success Criteria:***

OMS support team has updated pre-storm checklist with the procedures for disabling debugging and clearing error logs to be ready for NOC storm preparation activities

## 2. Project Deliverables:

Deliverable	Delivery Date	Comments
Approved Pre-Storm checklist with procedures for error and debugging conditions	5/3/2021	Existing Pre-Storm checklist will be leveraged and updated to include the appropriate actions as outlined in this implementation plan.

### 2.1. Assumptions, Dependencies, and Constraints

#### 2.1.1 Assumptions:

- CGI Vendor resources will be available to provide SME time and answer any questions on their applications
- Project implementation timeline is planned to complete all activities ahead of storm season
- This implementation plan will cover implementation for OMS v5.5 and OMS v6.7

#### 2.1.2 Dependencies:

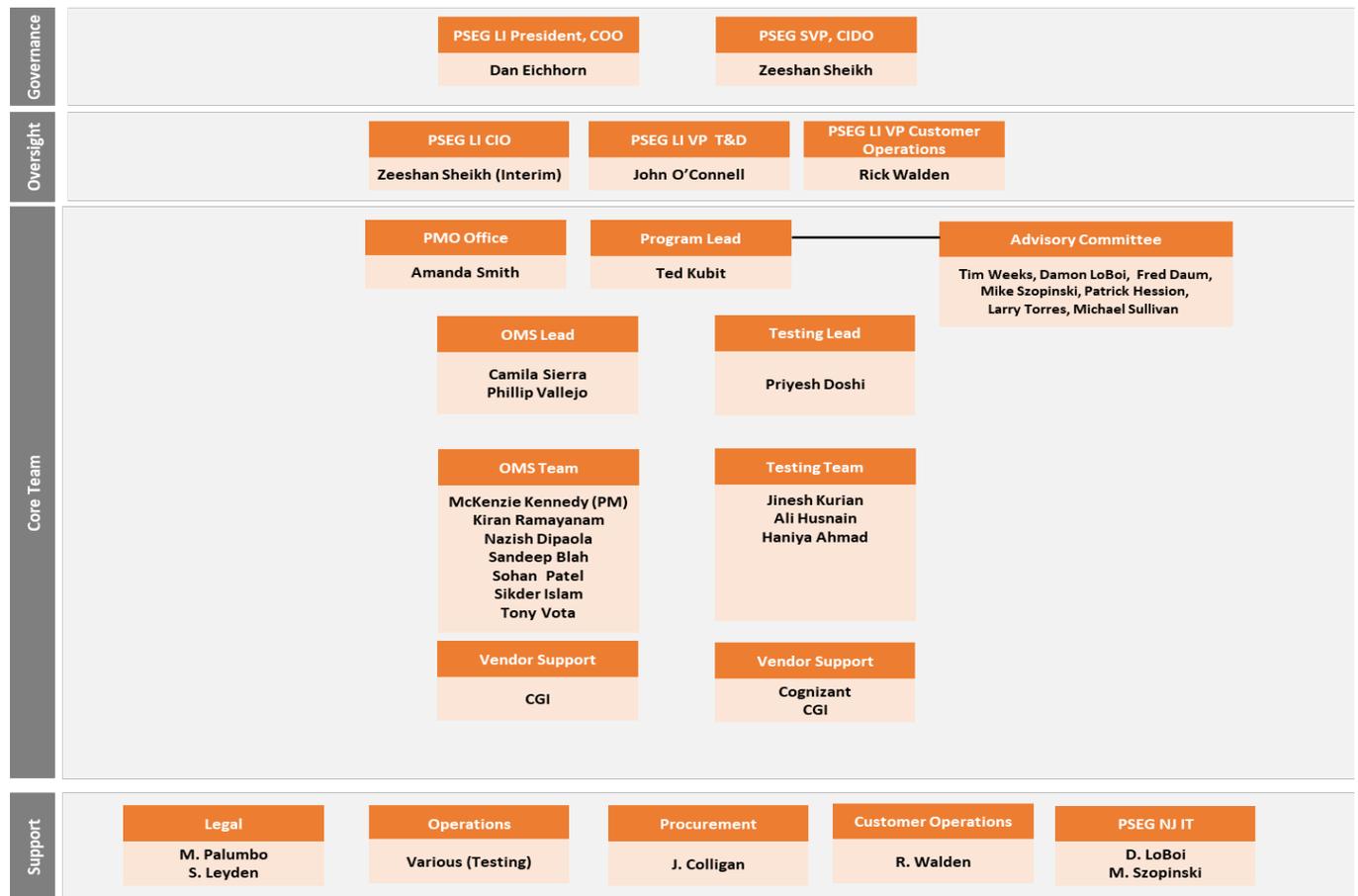
- Existing Pre-Storm Checklist and IT Run Book will be updated to include procedures for clearing application error and debugging conditions.

#### 2.1.3 Constraints:

- The number of qualified resources with subject matter expertise.
- Competing projects that further constrain available resources.
- Availability of vendor resources to provide application updates and support testing activities.

### 3. Project Structure

#### 3.1. Internal Project Organization



Role	Name	Responsibilities
Steering Committee	Dan Eichhorn Zeeshan Sheikh	<ul style="list-style-type: none"> <li>• Championing the PSEG LI Storm Restoration initiative</li> <li>• Establishing guiding principles for the project</li> <li>• Ensuring project activities remained aligned with the guiding principles as defined</li> <li>• Providing guidance and input on <i>key project decisions</i></li> <li>• Challenging the project team where appropriate</li> <li>• Approving major <i>changes to the project’s scope, objectives, timelines, costs, etc.</i></li> <li>• Acting as the decision maker for issues requiring <i>escalation</i></li> <li>• Removing institutional barriers when <i>they arise by serving as a project advocate</i></li> </ul>
PSEG LI CIO	Zeeshan Sheikh (Interim)	<ul style="list-style-type: none"> <li>• Ensuring <i>workstreams adhere to guiding principles as defined by project leadership</i></li> <li>• Managing issues and decision making</li> <li>• Removing <i>obstacles that impede the success of the overall project</i> Providing strategic guidance</li> </ul>

		<ul style="list-style-type: none"> <li>• Challenging the project team where appropriate</li> <li>• Approve procurement of external parties (as needed)</li> </ul>
Advisory Committee Members	Tim Weeks Damon LoBoi Mike Szopinski Fred Daum Patrick Hession Larry Torres Michael Sullivan	<ul style="list-style-type: none"> <li>• Providing guidance and input <i>on key project decisions</i></li> <li>• Assisting in the procurement of external parties (as needed)</li> <li>• Removing obstacles that impede the success of the overall project</li> <li>• Providing subject matter expertise to the project</li> <li>• Challenging the <i>project team</i></li> </ul>
Team Lead	Camila Sierra Kirankumar Ramayanam Phillip Vallejo	<ul style="list-style-type: none"> <li>• Drive workstream tasks and deliver recommendations for Solution Design Specification</li> <li>• Provide support for Testing</li> <li>• Aid in the development <i>functional requirements</i></li> <li>• Provide input on requirement / design</li> <li>• <i>Coordinating Business Resources to support the project</i></li> <li>• Key Point of contact to for questions from the OMS vendor</li> <li>• Providing sign off for deliverables that require business <i>input/acceptance</i></li> <li>• <u>Delivering the OMS project on time and on budget</u></li> </ul>
Project Manager	McKenzie Kennedy	<ul style="list-style-type: none"> <li>• Reporting overall status of the project to Stakeholders and Program Leadership</li> <li>• Identifying and escalating resource issues</li> <li>• Providing status reports for delivery to internal and external stakeholders (LIPA, DPS)</li> <li>• Manage resources, <i>schedule, issues, risks and change requests</i></li> <li>• Process development, requirements definition,</li> <li>• Providing subject matter expertise to the <i>project</i></li> <li>• User Impact Analysis</li> <li>• Facilitating workshops</li> </ul>
Performance Engineer	Sri Kanaparthi	<ul style="list-style-type: none"> <li>• Supporting Build/Test/Deploy Activities</li> <li>• Assist with Environment setup</li> <li>• Coordinating Development activities</li> <li>• Assist with Technical Design and Architecture</li> <li>• Assist with Transfer of Environments</li> </ul>
Business Lead	Anthony Vota Mahamudul Chowdhury Gurkirat Singh Paul Mattera Matthew Otto	<ul style="list-style-type: none"> <li>• Process development, requirements definition, <i>functional design</i></li> <li>• Technical Design</li> <li>• Supporting vendor questions and workshops</li> <li>• Testing Execution</li> </ul>
Test Lead	Sandeep Blah Jinesh Kurian	<ul style="list-style-type: none"> <li>• Providing overall management across testing activities</li> <li>• Develop Test Strategy</li> <li>• Develop Test Data</li> </ul>
Test Coordinator	Sikder Islam	<ul style="list-style-type: none"> <li>• Test Coordination between Vendor and PSEG resources</li> <li>• Responsible for execution of Test Scripts</li> <li>• Test Script Development</li> </ul>
Environment Lead	Anish Thomas Sohan Patel Vikas Vohra	<ul style="list-style-type: none"> <li>• Technical Design development</li> <li>• Environment design support</li> </ul>
OMS Developers and Subject Matter Advisors (CGI)	Peter Barnes Guillaume Simard-Lebrun Stephane Dumouchel Mark DeAgazio Neel Rana Jeffery Clark	<ul style="list-style-type: none"> <li>• Responsible for working with PSEG LI to install and validate the OMS solution                             <ul style="list-style-type: none"> <li>• Responsible for defect fixes and troubleshooting functional and performance issues</li> </ul> </li> </ul>
PSEG NJ IT Subject Matter Advisor	Damon LoBoi Michal Szopinski Timothy Weeks Michael Casella Ryan Wilson	<ul style="list-style-type: none"> <li>• Subject Matter support with:                             <ul style="list-style-type: none"> <li>• Build/Test/Deploy Activities</li> <li>• Assist with Environment setup</li> <li>• Coordinating Development activities</li> <li>• Assist with Technical Design and Architecture</li> </ul> </li> <li>• Assist with Transfer of Environments</li> </ul>

	Ajith Elayidom	
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### 3.2. Other Stakeholders

Identification of other internal and external project stakeholders is shown below:

Organization/Team	Name	Responsibilities
Long Island Power Authority	Mujib Lodhi, Rick Shansky	• Overall oversight of the entire project portfolio
Department of Public Service	Joseph Suich, Kevin Wisely	• Overall oversight of the entire project portfolio

## 4. Project Plan

### 4.1. Project Work Plan

#### *Project Work Plan Objectives*

The following project tasks are part of the larger OMS integrated project plan. These are specific to recommendation 4.19.

Type	Task	% Complete	Start	Finish
<b>Recommendation</b>	<b>As part of storm preparation ensure that all application error and debug conditions have been cleared and the system is operating normally.</b>	<b>0%</b>	<b>Mon 1/18/21</b>	<b>Mon 5/3/21</b>
Task	Develop procedure for error and debugging conditions are cleared	0%	Mon 1/18/21	Fri 1/29/21
Task	Amend the procedure within the existing pre-storm checklist	0%	Mon 2/1/21	Fri 2/5/21
Task	Obtain approval of the amendment of the pre-storm checklist	0%	Mon 2/8/21	Fri 2/12/21
<b>Document</b>	<b><i>Pre-Storm Standard Operating Procedure Document</i></b>	<b>0%</b>	<b><i>Fri 2/12/21</i></b>	<b><i>Fri 2/12/21</i></b>
Task	Incorporate this task into OMS support team and NOC storm preparation activities	0%	Mon 2/15/21	Fri 2/19/21
Task	Obtain Acceptance	0%	Mon 2/22/21	Fri 2/26/21
Task	Deploy into Production	0%	Mon 3/1/21	Mon 3/1/21
<b>Document</b>	<b><i>Go-Live Confirmation Document</i></b>	<b>0%</b>	<b><i>Mon 3/1/21</i></b>	<b><i>Mon 3/1/21</i></b>
<b>Deliverable</b>	<b>Approved Pre-Storm checklist with procedures for error and debugging conditions</b>	<b>0%</b>	<b>Mon 3/1/21</b>	<b>Mon 3/1/21</b>

**4.2. Risk Management Plan**

Issues and risks will be identified by the PSEG LI Team and the PMO daily. These items will be logged in an issue/risk tracker. The information in the tracker will be reviewed by the steering committee each week. The steering committee will determine the appropriate actions (if necessary) to get the project on track. The issue/risk tracker will be used to track items to closure, identifying the resolution date and course of action taken.

**4.3. Issue Resolution Plan**

Issues and risks will be identified by the PSEG LI Team and the PMO daily. These items will be logged in an issue/risk tracker. The information in the tracker will be reviewed by the steering committee each week. The steering committee will determine the appropriate actions (if necessary) to get the project on track. The issue/risk tracker will be used to track items to closure, identifying the resolution date and course of action taken.

The table below outlines the applicable risks and associated risk mitigations for the Outage Management System project.

<b>Category</b>	<b>Project Risk</b>	<b>Mitigation</b>
Resources	Resource constraints from OMS team due to competing projects.	Assign and commit sufficient business and IT resources and they are available to support this project. Two new external contracted resources with OMS experience, specifically with CGI’s OMS system have been hired to provide operations support allowing existing team members to focus on the project. As necessary, additional contract resources will be hired to back fill normal job responsibilities
Resources	No holistic solution owner from PSEG LI to oversee entirety of solution	PSEG LI to designate a resource to be the holistic oversight for entire solution
Resources	Availability of resources due to other Storm duty priorities	Careful prioritization of projects with LIPA recommendations as top priority in order to complete all tasks/milestones on time.

**4.4. LIPA Reporting Plan**

Weekly status reports for all recommendations, containing project progress and documentation will be provided to LIPA by Zeeshan Sheikh.

## 5. Technical Execution Plan

### 5.1. Technical Approach

#### 5.1.1 Configuration of Applications:

For any changes to configuration of applications, the vendor will be contacted when needed and internal infrastructure will be adjusted accordingly. Testing will be executed to verify changes are working as intended.

#### 5.1.2 Changes to webservices:

Changes to existing CGI webservices or new webservices will be developed on the preferred development platform at PSEG LI. Code will be reviewed and unit tested prior to deploying code to the test environment. SAT and SIT testing will occur in the test environment to verify functionality is working as intended.

### 5.2. Quality Assurance Plan

- 1 The team will adhere to the PSEG's IT standards for the deployment of this project.
- 2 PSEG LI IT SharePoint will be used as the document repository.
- 3 The deliverables will follow the following QA processes:
  - a. Team lead review and signoff
  - b. Peer Review (PSEG)
  - c. Subject Matter Advisor Review as necessary
  - d. PSEG Signoff by PSEGLI CIO and President & COO of PSEGLI
  - e. Independent Verification and Validation by LIPA CIO

### 5.3. Documentation Plan

Throughout the project lifecycle the implementation team will document and deliver the key deliverables as listed above in Section 2. The due date of each deliverable will be based off the Project Schedule as outlined in Section 4.1. A final Project Closure Document will be delivered once all LIPA Recommendations in this implementation plan are completed.

<b>Project Artifacts</b>	<b>Description</b>
<b>Pre-Storm Standard Operating Procedure Document</b>	Production Support team including all applicable Production Acceptance, Change Management and IT Change Management documentation and approvals for Pre-Storm processes.
<b>Go-Live Confirmation Document</b>	The application has been put into production environment and the Company's end users

	have the ability to access and use the application and its functionality as designed
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## **Revision History**

<b>Name</b>	<b>Date</b>	<b>Reason for Changes</b>	<b>Version</b>
Jinesh Kurian	12/09/2020	Initial draft	1.0 draft 1
McKenzie Kennedy	12/10/2020	Initial Review	1.0 draft 2
McKenzie Kennedy	1/11/2021	Updated Project Plan	2.0 draft 1

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# **PSEG Long Island**

## **Project Implementation Plan**

**for**

### **Isaias Task Force Recommendation Implementations**

### **Recommendation No. 3.2.1.3**

**Project Title:** The existing infrastructure for handling calls within the PSEG Long Island Call Center should be upgraded to a more recent version. PSEG Long Island should modernize its call center infrastructure to a technology that uses the newer "SIP Trunking" technology.

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## 1. Project Definition

This project includes efforts to modernize the PSEG LI Contact Center by migrating existing legacy PRI telephony circuits to the more modern SIP trunking technology and upgrading the Cisco Unified Contact Center Enterprise Platform to a more current version. This will enable optimized call routing through the carrier networks and distribution of calls between the PSEG LI Contact Center and the HVCA. Capacity management over SIP trunking will be more dynamic, with the ability to add trunks quickly as needs evolve.

### 1.1. Project Purpose, Objectives, and Success Criteria

#### *Project Objectives:*

Migrate the carrier telephony lines supporting the PSEG LI Contact Center from the legacy PRIs that are currently in place to the more current SIP trunking technology. SIP trunks will be provisioned with sufficient capacity to meet current metrics for storm volumes while allowing a quicker capability to expand capacity to meet future needs.

The existing Cisco platform is nearing end of life and will require an upgrade to a more recent version to maintain supportability.

#### *Project End State and Success Criteria:*

Upgraded and modernized Long Island Contact Center telecom links are deployed and in production.

## 2. Project Deliverables:

Deliverable	Delivery Date	Comments
SIP Migration Project Plan	1/18/2021	Will resubmit as any significant changes are identified (i.e. HVCA consolidation, if prudent)
Upgrade Migration Project Plan	2/1/2021	Will resubmit as any significant changes are identified
Requirements Traceability Matrix (RTM)	1/22/2021	Delivered first after SIP requirements phase and updated 2/1/21 for Upgrade
SIP Low Level Technical Design	1/29/2021	
Upgrade Low Level Technical Design	2/5/2021	
Test Plan	2/5/2021	Developed as part of Low Level Design
Test Results	6/18/2021	
Final Sign Off	7/9/2021	

### 2.1. Assumptions, Dependencies, and Constraints

#### *2.1.1 Assumptions:*

- Project team will be available for design discussions and will have a designated resource who will confirm all decisions made for future improvements

- Vendor resources will be available to provide SME time to aid in the gathering of requirements, creating the design and specifications, etc.
- Procurement timelines will be expedited to meet project schedule
- Project will be approved to start immediately, will be funded and will not experience delays due to additional approvals

**2.1.2 Dependencies:**

- PSEG LI Availability of external experts to assist in the design, planning, RFP creation and evaluation and implementation.
- Approval to start immediately and funds available to onboard SMEs

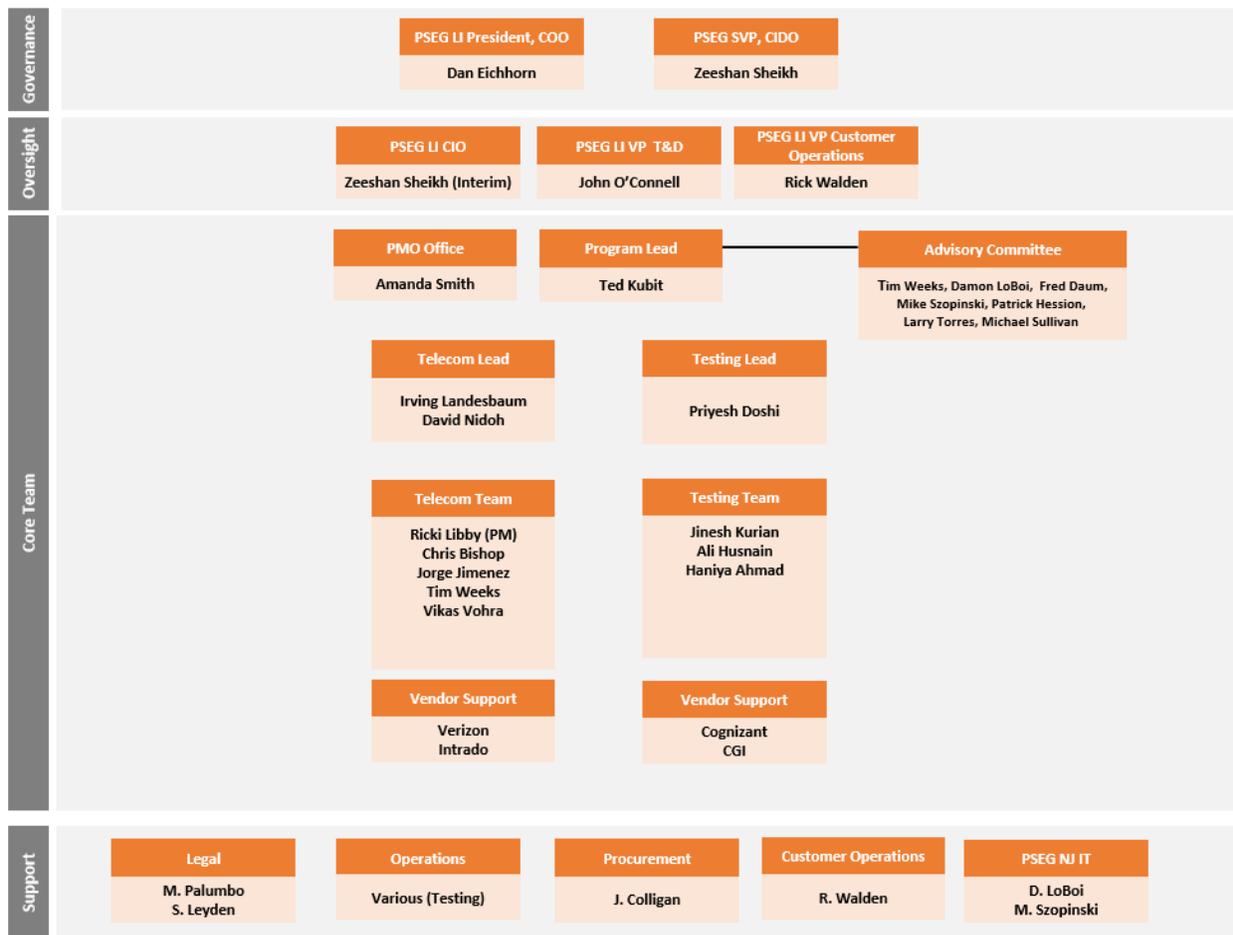
**2.1.3 Constraints:**

- The number of qualified resources with subject matter expertise.
- Competing projects and operational activities that further constrain available resources. Availability of vendor resources with requisite experience to engage quickly.

## **3. Project Structure**

### **3.1. Internal Project Organization**

The Telecom Team, Testing Team along with vendor support from other suppliers will implement this modernization project. The chart below shows the internal project organization and the groups responsible for the Telecom project:



**3.1.1 Roles and Responsibilities:**

Roles and responsibilities for the Telecom project are outlined in the table below:

Role	Name	Responsibilities
Steering Committee	Dan Eichhorn ( <i>Chair</i> ) Zeeshan Sheikh John O'Connell Rick Walden	<ul style="list-style-type: none"> <li>Championing the PSEG LI Storm Restoration initiative</li> <li>Establishing guiding principles for the project</li> <li>Ensuring project activities remained aligned with the guiding principles as <i>defined</i></li> <li>Providing guidance and input on <i>key project decisions</i></li> <li>Challenging the project team where appropriate</li> <li>Approving major <i>changes to the project's scope, objectives, timelines, costs, etc.</i></li> <li>Acting as the decision maker for issues requiring <i>escalation</i></li> <li>Removing institutional barriers when <i>they arise by serving as a project advocate</i></li> </ul>
PSEG LI CIO	Zeeshan Sheikh (Interim)	<ul style="list-style-type: none"> <li>Ensuring <i>workstreams adhere to guiding principles as defined by project leadership</i></li> <li>Managing issues and decision making</li> <li>Removing <i>obstacles that impede the success of the overall project</i> Providing <i>strategic guidance</i></li> <li>Challenging the project team where appropriate</li> <li>Approve procurement of external parties (as needed)</li> </ul>

Role	Name	Responsibilities
Advisory Committee Members	Tim Weeks Damon LoBoi Mike Szopinski Fred Daum Patrick Hession Larry Torres Michael Sullivan	<ul style="list-style-type: none"> <li>• Providing guidance and input on <i>key project decisions</i></li> <li>• Assisting in the procurement of external parties (as needed)</li> <li>• Removing obstacles that impede the success of the overall project</li> <li>• Providing subject matter expertise to the project</li> <li>• Challenging the <i>project team</i></li> </ul>
Team Lead	Vikas Vohra <i>David Nidoh</i>	<ul style="list-style-type: none"> <li>• Drive workstream tasks and deliver recommendations for Solution Design Specification</li> <li>• Provide support for Testing</li> <li>• Aid in the development <i>functional requirements</i></li> <li>• Provide input on requirement / design</li> <li>• <i>Coordinating Business Resources to support the project</i></li> <li>• Key Point of contact to for questions from the vendor</li> <li>• Providing sign off for deliverables that require business <i>input/acceptance</i></li> <li>• Delivering the project on time and on budget</li> </ul>
Project Manager	Vikas Vohra <i>Ricki Libby</i>	<ul style="list-style-type: none"> <li>• Reporting overall status of the project to Stakeholders and Program Leadership</li> <li>• Identifying and escalating resource issues</li> <li>• Providing status reports for delivery to internal and external stakeholders (LIPA, DPS)</li> <li>• Manage resources, <i>schedule, issues, risks and change requests</i></li> <li>• Process development, requirements definition,</li> <li>• Providing subject matter expertise to the <i>project</i></li> <li>• User Impact Analysis</li> <li>• <i>Facilitating workshops</i></li> </ul>
Performance Engineer	Sri Kanaparthi	<ul style="list-style-type: none"> <li>• Supporting Build/Test/Deploy Activities</li> <li>• Assist with Environment setup</li> <li>• Coordinating Development activities</li> <li>• Assist with Technical Design and Architecture</li> <li>• Assist with Transfer of Environments</li> </ul>
Business Lead	Chris Bishop	<ul style="list-style-type: none"> <li>• Process development, requirements definition, <i>functional design</i></li> <li>• Technical Design</li> <li>• Supporting vendor questions and workshops</li> <li>• <i>Testing Execution</i></li> </ul>
Test Lead	Sikder Islam	<ul style="list-style-type: none"> <li>• Test Script Development</li> <li>• Test Script Execution for Assembly / Unit Test</li> <li>• Test Execution</li> </ul>
Presidio	Steve Yablonski and TBD	<ul style="list-style-type: none"> <li>• Cisco UCCE Upgrade Engineering</li> <li>• Support Testing</li> <li>• Support Cutover</li> </ul>

### 3.2. Other Stakeholders

Identification of other internal and external project stakeholders is shown below:

Organization/Team	Name	Responsibilities
Long Island Power Authority	Mujib Lodhi, Rick Shansky	<ul style="list-style-type: none"> <li>• Overall oversight of the entire project portfolio</li> </ul>
Department of Public Service	Joseph Suich, Kevin Wisely	<ul style="list-style-type: none"> <li>• Overall oversight of the entire project portfolio</li> </ul>

## 4. Project Plan

### 4.1. Project Work Plan

More tactically, in order to achieve the objectives outlined in Section 2 of this document, PSEG LI has developed a strategic Project Plan comprised of the following activities:

Task	Recommendation	Pct Complete	Target Start Date	Target End Date
<b>Recommendation</b>	<b>PSEG Long Island should modernize its call center infrastructure to a technology that uses the newer “SIP Trunking” technology.</b>	<b>0%</b>	<b>1/18/21</b>	<b>7/9/21</b>
<b>Task</b>	<b>Migrate TDM PRIs to SIP Trunking</b>	<b>0%</b>	<b>Mon 1/18/21</b>	<b>Wed 6/2/21</b>
Sub Task	Develop Requirements and High-Level design	0%	Mon 1/18/21	Fri 1/22/21
Sub Task	Develop low level technical design of solution	0%	Mon 1/25/21	Fri 1/29/21
Sub Task	Review designs and cost impacts with leadership for approval	0%	Mon 2/1/21	Fri 2/5/21
Sub Task	Place order with carrier for provisioning	0%	Mon 2/8/21	Wed 2/10/21
Sub Task	Procurement for Telecom Equipment	0%	Mon 2/8/21	Fri 3/12/21
Sub Task	CMDB updated with new equipment and any updated Cis	0%	Mon 3/8/21	Fri 3/12/21
Sub Task	Rack/Stack/Cable Telecom Equipment	0%	Mon 3/15/21	Fri 4/16/21
Sub Task	Carrier installs data links and SIP trunks	0%	Thu 2/11/21	Wed 5/5/21
Sub Task	Test and Turn Up of new circuits and trunks	0%	Thu 5/6/21	Wed 5/19/21
Sub Task	Cutover	0%	Thu 5/20/21	Wed 6/2/21
Milestone	SIP Trunking Migration Complete	0%	Wed 6/2/21	Wed 6/2/21
<b>Task</b>	<b>Upgrade Cisco Unified Contact Center Enterprise (UCCE)</b>	<b>0%</b>	<b>Mon 2/1/21</b>	<b>Fri 7/9/21</b>
Sub Task	Develop low level technical design for upgrade	0%	Mon 2/1/21	Fri 2/5/21
Sub Task	Procurement for Telecom Equipment	0%	Mon 2/8/21	Fri 3/12/21
Sub Task	CMDB updated with new equipment and any updated Cis	0%	Mon 3/8/21	Fri 3/12/21
Sub Task	Rack/Stack/Cable Telecom Equipment	0%	Mon 3/15/21	Fri 4/9/21
Sub Task	Build upgraded UCCE Components	0%	Mon 4/12/21	Fri 6/4/21
Sub Task	User Acceptance Testing	0%	Mon 6/7/21	Fri 6/18/21
Sub Task	Cutover	0%	Mon 7/5/21	Fri 7/9/21
Milestone	UCCE Upgrade Complete	0%	Fri 7/9/21	Fri 7/9/21
Milestone	LIPA Task #3.2.1.3 Complete	0%	Fri 7/9/21	Fri 7/9/21

## 4.2. Risk Management Plan

The table below outlines the applicable risks and associated risk mitigations for the Telecom project.

Category	Project Risk	Mitigation
Resources	No holistic solution owner from PSEG LI to oversee entirety of solution	PSEG LI to designate a resource to be the holistic oversight for entire solution
Resources	Availability of resources due to other Storm duty priorities	Careful prioritization of projects with LIPA recommendations as top priority in order to complete all tasks/milestones on time.
Schedule / Cost	Contract negotiation could delay project due to multiple vendor partners involved for making changes to the entire architecture	PSEG LI to expedite contract approvals and determine if there are options for performing some work internally
Schedule / Cost	Vendor delays cause the schedule to shift and key project milestones are not able to be met on time	Work with the vendor to quickly resolve impediments.
Schedule / Cost	Timely approval of the project not received	Gain project approval before starting the project and adjust schedule accordingly after project approval.
Program Management	Lack of Scope/Requirements control including changes needed to legacy IT systems	Lack of scope/requirements control is the leading cause of budget and schedule overruns for this scale of project. It will be critical to closely define project scope/requirements, quickly clarify any uncertainties as they arise, and escalate as required. Any changes in scope/requirements must be agreed-to by the executive steering committee.
Program Management	Additional recommendations for improvement are developed and will need to be added to this workstream	Additional recommendations that have activities similar to those addressed in this project will be identified and logically grouped within tracks. Resource requirements will be identified. Where necessary, contract resources will be hired to back fill normal job responsibilities
Infrastructure	Delays in equipment delivery and/or communications	Thorough project management and escalation procedures.

## 4.3. Issue Resolution Plan

Issues and risks will be identified by the PSEG LI Team and the PMO daily. These items will be logged in an issue/risk tracker. The information in the tracker will be reviewed by the steering committee each week. The steering committee will determine the appropriate actions (if necessary) to get the project on track. The issue/risk tracker will be used to track items to closure, identifying the resolution date and course of action taken.

## 4.4. LIPA Reporting Plan

Weekly status reports for all recommendations, containing project progress and documentation will be provided to LIPA by Zeeshan Sheikh.

## 5. Technical Execution Plan

### 5.1. Technical Approach

#### 5.1.1 Technical Improvements:

The entire call center infrastructure/solution will be upgraded and/or replaced by a new on premise solution. This will be a more current version of the call center solution allowing for the use of current IP based communications technologies and to remain in compliance with vendor support agreements.

### 5.2. Quality Assurance Plan

- 1 The team will adhere to the PSEG's IT standards for the deployment of this project. PSEG LI IT SharePoint will be used as the document repository.
- 2 The deliverables will follow the following QA processes:
  - a. Team lead review and signoff
  - b. Peer Review (PSEG)
  - c. Subject Matter Advisor Review as necessary
  - d. PSEG Signoff by PSEGLI CIO and President & COO of PSEGLI
  - e. Independent Verification and Validation by LIPA CIO

### 5.3. Documentation Plan

Throughout the project lifecycle the implementation team will document and deliver the key deliverables as listed above in Section 2. The due date of each deliverable will be based off the Project Schedule as outlined in Section 4.1. A final Project Closure Document will be delivered once all LIPA Recommendations in this implementation plan are completed.

<b>Project Artifacts</b>	<b>Description</b>
<b>Low Level Technical Design</b>	Detailed Design documenting specific features, functions and configurations required for the Cisco Upgrade
<b>Vendor SOW</b>	Statement of Work to cover Cisco Upgrade implementation
<b>CMDB Updates</b>	CMDB updated with all new hardware, software changes and telecom circuitry

## **Revision History**

<b>Name</b>	<b>Date</b>	<b>Reason for Changes</b>	<b>Version</b>
David Nidoh	1/13/2021	initial draft	1.0 draft 1

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# **PSEG Long Island**

## **Project Implementation Plan**

**for**

### **Isaias Task Force Recommendation Implementations**

### **Recommendation No. 3.2.2.9**

**Project Title: 3.2.2.9 The IVR and OMS communication protocol should be reviewed in detail and redesigned so that all messages between the two components are agreed, understood, verified to be operational and tested against error conditions such as sending duplicate outage reports.**

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## 1. Project Definition

This implementation plan is focused on creating a communication protocol for data that is sent between IVR and OMS. This plan will outline the necessary project activities that are required to eliminate error conditions and duplicate outage reports.

### 1.1. Project Purpose, Objectives, and Success Criteria

**Project Objectives:** Reduce or eliminate duplicate / erroneous outage submissions from propagating into OMS. Provide additional visibility into the data for reporting and monitoring purposes.

**Project End State and Success Criteria:** Error conditions and duplicate outage reports are eliminated. Changes made to the IVR / HVCA / OMS integration have greatly reduced the duplicate submission incidence rate. Additionally, new fields were added to improve monitoring and triage of outage submissions. The combination of these updates reduces the inconsistencies found during the storm. The end state is a more robust architecture with additional monitoring information which will allow a newly designated system data administrator to more accurately monitor the incoming messaging and reject erroneous outage tickets.

## 2. Project Deliverables:

*Describe applicable Project Deliverables:*

Deliverable	Delivery Date	Comments
Tested and deployed updated IVR and OMS protocols.	5/11/2021	See section 4.0 for detailed project plan

### 2.1. Assumptions, Dependencies, and Constraints

#### 2.1.1 Assumptions:

- CGI Vendor resources will be available to provide SME time and answer any questions on their applications
- Project implementation timeline is planned to complete all activities ahead of storm season
- XTENSIBLE is responsible for developing, testing and deploying the Sonic ESB middleware between the interfaces and the OMS.
- Required environments will be available to perform testing of the OMS system and integration points with IVR

#### 2.1.2 Dependencies:

- CGI to make any required core development changes to the OMS v6.7 to enable performance
- Integrated testing of the OMS system with dependent vendors outlined in the Digital Channels and Telecom implementation plans, to provide outage information into the OMS
- XTENSIBLE to make any require core development changes to the Sonic ESB middleware between the interfaces and the OMS.

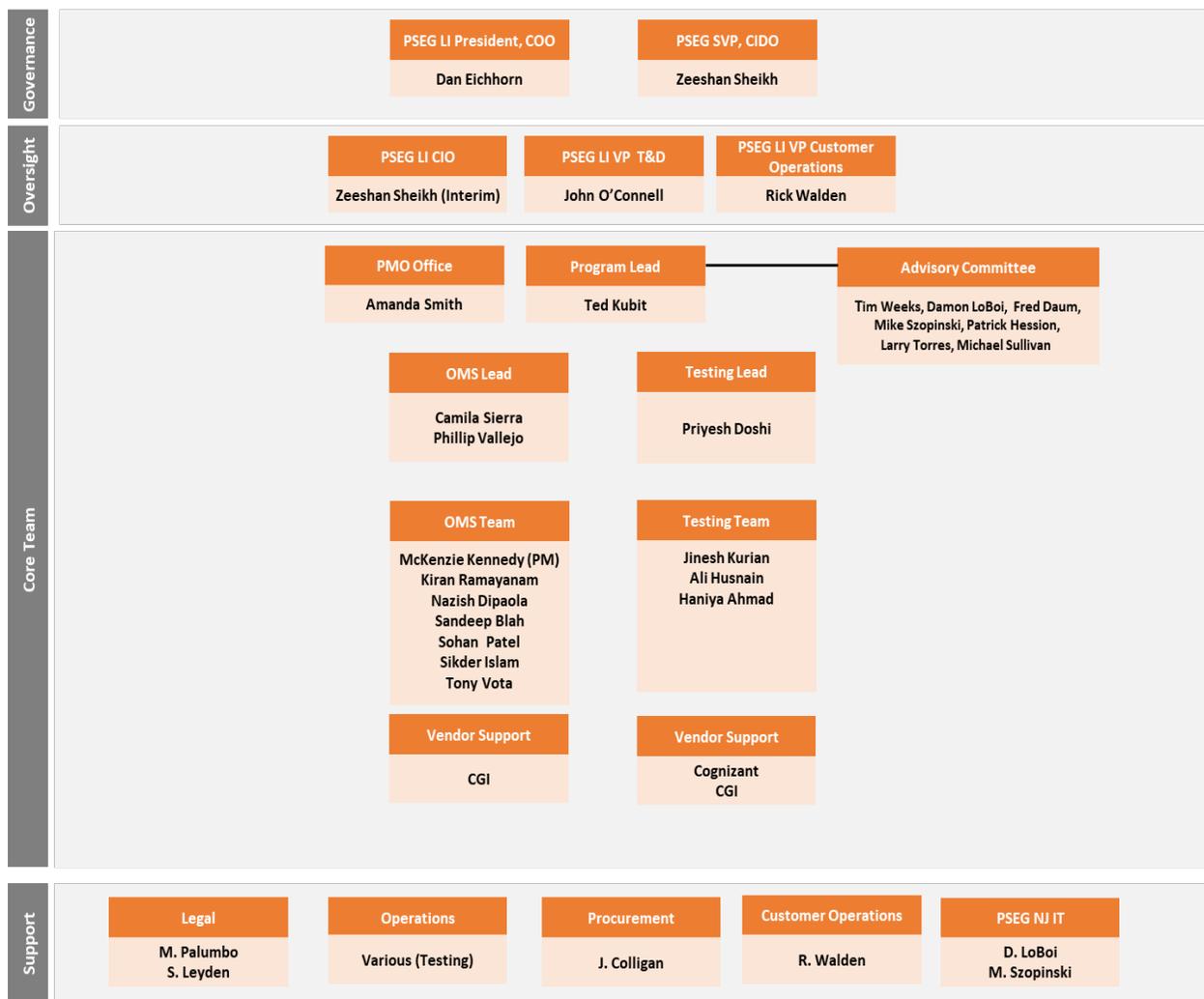
- CGI is required to make any necessary modifications to the OMS web services to provide outage status and report outages
- The timeline to complete the recommendations is dependent on procurement of new hardware required for the re-platform of OMS v6.7
- The timeline is dependent on alignment of overall test approach for all workstreams (OMS, Digital Channels, Telecom, Field Mobility) between PSEG LI and LIPA

**2.1.3 Constraints:**

- The number of qualified resources with subject matter expertise.
- Competing projects that further constrain available resources.
- Availability of vendor resources to provide application updates and support testing activities.

### 3. Project Structure

#### 3.1. Internal Project Organization



Role	Name	Responsibilities
Steering Committee	Dan Eichhorn Zeeshan Sheikh	<ul style="list-style-type: none"> <li>Championing the PSEG LI Storm Restoration initiative</li> <li>Establishing guiding principles for the project</li> <li>Ensuring project activities remained aligned with the guiding principles as <i>defined</i></li> <li>Providing guidance and input on <i>key project decisions</i></li> <li>Challenging the project team where appropriate</li> <li>Approving major <i>changes to the project's scope, objectives, timelines, costs, etc.</i></li> <li>Acting as the decision maker for issues requiring <i>escalation</i></li> <li>Removing institutional barriers when <i>they arise by serving as a project advocate</i></li> </ul>
PSEG LI CIO	Zeeshan Sheikh (Interim)	<ul style="list-style-type: none"> <li>Ensuring <i>workstreams adhere to guiding principles as defined by project leadership</i></li> <li>Managing issues and decision making</li> <li>Removing <i>obstacles that impede the success of the overall project</i> Providing <i>strategic guidance</i></li> <li>Challenging the project team where appropriate</li> <li>Approve procurement of external parties (as needed)</li> </ul>
Advisory Committee Members	Tim Weeks Damon LoBoi Mike Szopinski Fred Daum Patrick Hession Larry Torres Michael Sullivan	<ul style="list-style-type: none"> <li>Providing guidance and input on <i>key project decisions</i></li> <li>Assisting in the procurement of external parties (as needed)</li> <li>Removing obstacles that impede the success of the overall project</li> <li>Providing subject matter expertise to the project</li> <li>Challenging the <i>project team</i></li> </ul>
Team Lead	Camila Sierra Kirankumar Ramayanam Phillip Vallejo	<ul style="list-style-type: none"> <li>Drive workstream tasks and deliver recommendations for Solution Design Specification</li> <li>Provide support for Testing</li> <li>Aid in the development <i>functional requirements</i></li> <li>Provide input on requirement / design</li> <li><i>Coordinating Business Resources to support the project</i></li> <li>Key Point of contact to for questions from the OMS vendor</li> <li>Providing sign off for deliverables that require business <i>input/acceptance</i></li> <li>Delivering the OMS project on time and on budget</li> </ul>
Project Manager	McKenzie Kennedy	<ul style="list-style-type: none"> <li>Reporting overall status of the project to Stakeholders and Program Leadership</li> <li>Identifying and escalating resource issues</li> <li>Providing status reports for delivery to internal and external stakeholders (LIPA, DPS)</li> <li>Manage resources, <i>schedule, issues, risks and change requests</i></li> <li>Process development, requirements definition,</li> <li>Providing subject matter expertise to the <i>project</i></li> <li>User Impact Analysis</li> <li>Facilitating workshops</li> </ul>
Performance Engineer	Sri Kanaparthi	<ul style="list-style-type: none"> <li>Supporting Build/Test/Deploy Activities</li> <li>Assist with Environment setup</li> <li>Coordinating Development activities</li> <li>Assist with Technical Design and Architecture</li> <li>Assist with Transfer of Environments</li> </ul>
Business Lead	Anthony Vota Mahamudul Chowdhury Gurkirat Singh Paul Mattera Matthew Otto	<ul style="list-style-type: none"> <li>Process development, requirements definition, <i>functional design</i></li> <li>Technical Design</li> <li>Supporting vendor questions and workshops</li> <li>Testing Execution</li> </ul>
Test Lead	Sandeep Blah Jinesh Kurian	<ul style="list-style-type: none"> <li>Providing overall management across testing activities</li> <li>Develop Test Strategy</li> <li>Develop Test Data</li> </ul>
Test Coordinator	Sikder Islam	<ul style="list-style-type: none"> <li>Test Coordination between Vendor and PSEG resources</li> <li>Responsible for execution of Test Scripts</li> <li>Test Script Development</li> </ul>
Environment Lead	Anish Thomas Sohan Patel Vikas Vohra	<ul style="list-style-type: none"> <li>Technical Design development</li> <li>Environment design support</li> </ul>

OMS Developers and Subject Matter Advisors (CGI)	Peter Barnes Guillaume Simard-Lebrun Stephane Dumouchel Mark DeAgazio Neel Rana Jeffery Clark	<ul style="list-style-type: none"> <li>Responsible for working with PSEG LI to install and validate the OMS solution                             <ul style="list-style-type: none"> <li>Responsible for defect fixes and troubleshooting functional and performance issues</li> </ul> </li> </ul>
PSEG NJ IT Subject Matter Advisor	Damon LoBoi Michal Szopinski Timothy Weeks Michael Casella Ryan Wilson Ajith Elayidom	<ul style="list-style-type: none"> <li>Subject Matter support with:                             <ul style="list-style-type: none"> <li>Build/Test/Deploy Activities</li> <li>Assist with Environment setup</li> <li>Coordinating Development activities</li> <li>Assist with Technical Design and Architecture</li> </ul> </li> <li>Assist with Transfer of Environments</li> </ul>

### 3.2. Other Stakeholders

Identification of other internal and external project stakeholders is shown below:

Organization/Team	Name	Responsibilities
Long Island Power Authority	Mujib Lodhi, Rick Shansky	<ul style="list-style-type: none"> <li>Overall oversight of the entire project portfolio</li> </ul>
Department of Public Service	Joseph Suich, Kevin Wisely	<ul style="list-style-type: none"> <li>Overall oversight of the entire project portfolio</li> </ul>

## 4. Project Plan

### 4.1. Project Work Plan

Type	Task Name	% Complete	Start	Finish
Recommendation	<b>The IVR and OMS communication protocol should be reviewed in detail and redesigned so that all messages between the two components are agreed, understood, verified to be operational and tested against error conditions such as sending duplicate outage report.</b>	10%	Mon 11/2/20	Tue 5/11/21
Task	Analyze current state architecture of Intrado	100%	Mon 11/16/20	Tue 11/24/20
Task	Host design sessions to produce future state architecture for interface improvements	100%	Mon 11/9/20	Fri 11/20/20
Task	Create a recommendation for future architecture	100%	Mon 11/9/20	Fri 11/20/20
Task	Conduct RCA testing to identify issues in the interface for remediation	100%	Mon 11/2/20	Fri 11/6/20

Task	Investigate outcome of RCA testing to determine appropriate fix for issues surrounding calls	100%	Mon 11/9/20	Tue 11/10/20
Task	Document changes and update procedures	0%	Wed 1/20/21	Tue 2/2/21
<b>Document</b>	<b>Standard Operating Procedure / Go-Live Ticket</b>	<b>0%</b>	<b>Tue 2/2/21</b>	<b>Tue 2/2/21</b>
Task	Implement Null ETR	<b>100%</b>	Mon 10/19/20	Fri 10/23/20
Task	Document changes and update procedures	0%	Wed 1/20/21	Tue 2/2/21
<b>Document</b>	<b>Standard Operating Procedure / Go-Live Ticket</b>	<b>0%</b>	<b>Tue 2/2/21</b>	<b>Tue 2/2/21</b>
<b>Parent Task</b>	<b>Backup Leg Changes</b>	<b>17%</b>	<b>Fri 11/20/20</b>	<b>Tue 5/11/21</b>
Task	Intrado to provide functional Design documentation for backup leg	100%	Fri 11/20/20	Mon 1/11/21
Task	PSEG to review functional design for backup leg and sign off	25%	Mon 1/11/21	Fri 1/15/21
Task	Final quote/Intrado director approval	0%	Mon 1/18/21	Fri 1/22/21
Task	To invoke and finalize PO process for Intrado	0%	Mon 1/18/21	Fri 1/22/21
<b>Document</b>	<b>Complete RTM</b>	<b>0%</b>	<b>Mon 1/18/21</b>	<b>Fri 1/22/21</b>
Task	LIPA Review	0%	Fri 1/22/21	Fri 1/22/21
Task	Intrado to create schedules/ staff resources/ start development (backup leg)	0%	Mon 1/25/21	Fri 1/29/21
Task	Intrado Build /Development for backup leg short term changes	0%	Mon 2/1/21	Fri 3/12/21
Task	Middleware Development to incorporate Intrado changes	0%	Mon 2/1/21	Fri 2/26/21
Task	OMS Development to incorporate Intrado changes	0%	Mon 2/1/21	Fri 2/26/21
Task	SIT / UAT testing of changes in pre-production environment	0%	Mon 3/15/21	Fri 4/9/21
Task	Develop solution documentation	0%	Mon 4/5/21	Fri 4/9/21
<b>Document</b>	<b>Document: Solution Design</b>	<b>0%</b>	<b>Fri 4/9/21</b>	<b>Fri 4/9/21</b>
Task	Performance testing	0%	Mon 4/12/21	Fri 4/23/21
Task	Penetration testing and data security and approval of build (code)	0%	Mon 4/26/21	Fri 5/7/21
Task	Go/ No-go	0%	Mon 5/10/21	Mon 5/10/21
Task	Solution Deployment	0%	Tue 5/11/21	Tue 5/11/21
Document	<i>Document: Standard Operating Procedures / Go - Live</i>	0%	<i>Tue 5/11/21</i>	<i>Tue 5/11/21</i>
<b>Parent Task</b>	<b>Primary Leg Changes</b>	<b>0%</b>	<b>Mon 1/4/21</b>	<b>Wed 4/14/21</b>
Task	Intrado to provide functional Design documentation for primary leg	0%	Mon 1/4/21	Fri 1/15/21

Task	PSEG LI to review functional design for primary leg	0%	Mon 1/18/21	Tue 1/19/21
Task	PSEG LI to invoke and finalize PO process for Intrado	0%	Wed 1/20/21	Tue 1/26/21
Task	Intrado to create schedules/ staff resources/ start development (primary leg leg)	0%	Wed 1/27/21	Tue 2/2/21
Task	Intrado to finalize development for primary leg short term changes	0%	Wed 2/3/21	Tue 3/16/21
Task	Middleware Development to incorporate Intrado changes	0%	Wed 2/3/21	Wed 3/3/21
Task	OMS Development to incorporate Intrado changes	0%	Wed 2/3/21	Wed 3/3/21
Task	SIT / UAT testing of changes in pre-production environment	0%	Wed 3/17/21	Tue 4/13/21
Task	Performance testing	0%	Wed 3/17/21	Tue 3/30/21
Task	Penetration testing and data security review and approval of Build (Code)	0%	Wed 3/31/21	Tue 4/13/21
Task	Change Management	0%	Wed 3/17/21	Tue 4/13/21
Task	Go/No-Go	0%	Wed 4/14/21	Wed 4/14/21
Task	Solution Deployment	0%	Wed 4/14/21	Wed 4/14/21
Milestone	Primary Leg Build Complete	0%	Wed 4/14/21	Wed 4/14/21
Deliverable	Tested and deployed updated IVR and OMS protocols	0%	Tue 5/11/2021	Tue 5/11/2021

#### 4.2. Risk Management Plan

The table below outlines the applicable risks and associated risk mitigations for the Outage Management System project.

Category	Project Risk	Mitigation
Resources	Resource constraints from OMS team due to competing projects.	Assign and commit sufficient business and IT resources and they are available to support this project. Two new external contracted resources with OMS experience, specifically with CGI's OMS system have been hired to provide operations support allowing existing team members to focus on the project. As necessary, hire contract resources to back fill normal job responsibilities
Resources	No holistic solution owner from PSEG LI to oversee entirety of solution	PSEG LI to designate a resource to be the holistic oversight for entire solution

Resources	Availability of resources due to other Storm duty priorities	Careful prioritization of projects with LIPA recommendations as top priority in order to complete all tasks/milestones on time.
Schedule / Cost	Contract negotiation could delay project due to multiple vendor partners involved for making changes to the entire architecture	PSEG LI to expedite contract approvals and determine if there are options for performing some work internally
Schedule / Cost	Vendor delays cause the schedule to shift and key project milestones are not able to be met on time	Regular cadence with vendors (weekly) to establish priorities and address issues. Work with the vendor to quickly resolve impediments.
Schedule / Cost	The activities outlined in the OMS project become more complex than anticipated	Review the additional work required to complete the project with the steering committee. Add the scope required complete the project to the implementation plan. Clearly identify the steps that will be taken to anticipate this complexity in future projects.
Program Management	Lack of Scope/Requirements control including changes needed to legacy IT systems	The project scope has been defined; clear change control process will be established by the PMO to address requests for change
Schedule/Cost	All project activities are dependent on the successful receipt and installation of new hardware and application installation of OMS v6.7. If the hardware is delayed all project activities for this project will be impacted.	Closely monitor delivery of hardware and perform as many tasks as possible in parallel to mitigate any potential delays.

**4.3. Issue Resolution Plan**

Issues and risks will be identified by the PSEG LI Team and the PMO daily. These items will be logged in an issue/risk tracker. The information in the tracker will be reviewed by the steering committee each week. The steering committee will determine the appropriate actions (if necessary) to get the project on track. The issue/risk tracker will be used to track items to closure, identifying the resolution date and course of action taken.

**4.4. LIPA Reporting Plan**

Weekly status reports for all recommendations, containing project progress and documentation will be provided to LIPA by Zeeshan Sheikh, PSEG LI CIO (Interim).

## 5. Technical Execution Plan

### 5.1. Technical Approach

#### 5.1.1 Intrado Changes:

The team has performed a review of the monitoring applications on the Intrado side and added additional names of key resources to enable PSEG LI to be more informed of any issues that occur on the Intrado side.

We monitor the Intrado platform as well for any shadow database hits and outage ticket failures. (Note: the data below is from a stress test). This is also monitored by the NOC.

Time	TOTAL CALLS	Shadow Database Hits	Outage Ticket Failures
00:00-00:29	1696	0	0
00:30-00:59	1714	0	0
01:00-01:29	36474	91	0
01:30-01:59	66693	1247	0
02:00-02:29	6997	178	0
02:30-02:59	0	0	0

#### 5.1.2 Implement Null ETR

Implementation of the Null ETR functionality will closely follow the work done on the deployment on the CGI v5.5 OMS. Configuration changes will be made to all defined interfaces to provide customers with Null ETRS while PSEG assesses damage. Existing test scripts and procedures will be updated to address any differences between the OMS versions, and external applications.

#### 5.1.3 Intrado Primary / Backup Leg Improvements

Changes made on the Intrado side to incoming outage submission XMLS will add additional information for outage source and submission time which will help in monitoring and determining erroneous reports. These changes will be propagated to the ESB and OMS.

Stale threshold configuration has been reduced to two hours for outages submitted through HVCA to the queue to reduce the likelihood of duplicate outage submissions.

## 5.2. Quality Assurance Plan

The team will adhere to the PSEG’s IT standards for the deployment of this project. PSEG LI IT SharePoint will be used as the document repository.

An individual test plan will be created, and for this recommendation it will include the following: Scope of Testing, Test Criteria, Tests to be performed (e.g.: Functional, Acceptance, Regression, Performance Testing, End to end).

Test plan and test results will be signed off by PSEGLI CIO and President & COO of PSEGLI, and shared with LIPA upon completion

The basis for all performance and stress testing will be based on the data model below:



## 5.3. Documentation Plan

Throughout the project lifecycle the implementation team will document and deliver the key deliverables as listed above in Section 2. The due date of each deliverable will be based off the Project Schedule as outlined in Section 4.1. A final Project Closure Document will be delivered once all LIPA Recommendations in this implementation plan are completed.

<b>Project Artifacts</b>	<b>Description</b>
Design Specification Document	Documentation of the solutions, their configuration and constraints.
Test Strategy & Plans	Test cases & test data are meeting the design requirements
Test Execution Results	Test results indicate the design requirements accomplished.
Standard Operating Procedure Document	Production Support team including all applicable Production Acceptance, SAP Change Management and IT Change Management documentation and approvals
Go-Live Confirmation Document	The application has been put into production environment and the Company’s end users have the ability to access and use the application and its functionality as designed

## **Revision History**

<b>Name</b>	<b>Date</b>	<b>Reason for Changes</b>	<b>Version</b>
McKenzie Kennedy	12/9/2020	Initial Draft	1.0 draft 1
Kirankumar Ramayanam	12/10/2020	Reviewed and comments added	1.0 draft 2
Alex Kniazev / Phil Vallejo	1/13/2021	Revised workplan, expanded technical approach	2.0

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# **PSEG Long Island**

## **Project Implementation Plan**

### **For Isaias Task Force Recommendation Implementations**

#### **Recommendation No. 3.2.3.1**

**Project Title: 3.2.3.1 At the beginning of storm planning and throughout the storm, designate a system data administrator dedicated to monitor, on a continuous basis, the timeliness, accuracy, and integrity of the information coming from OMS to Kubra**

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# 1. Project Definition

PSEG Long Island provides multiple digital channels to customers and stakeholders for both routine and storm and outage related communications. Routine communications include account, billing, and energy usage information; Storm and outage communications include downed wire and outage reporting, customer status and estimated restoration times; overall system status and service restoration activities; and pre-storm notifications.

The project goal is to verify PSEG LI designates a trained data administrator who proactively monitors the interface between OMS and Kubra using documentation created to ensure a standardized monitoring process. While the recommendation seeks to assign a data administrator, PSEG LI will look to create a role which can be transitioned quickly between resources and can be performed for the entire duration of a storm. Special attention will be given to provide the role with the right processes and technologies to monitor in all storm situations.

Any mention of the “Digital Channels” in this document refers to the following channels:

- Kubra Notifi / Outage Map

## 1.1. Project Purpose, Objectives, and Success Criteria

### 1.1.1 Project Objectives:

The objectives of the project are:

1. Designate a system data administrator dedicated to monitor on a continuous basis, the timeliness, accuracy and integrity of the information coming from the OMS to Kubra application
2. Train data administrator on appropriate procedures to monitor on a continuous basis the data coming from OMS to Kubra
3. Create documentation around the various processes for monitoring Kubra OMS interface

### 1.1.2 Project End State and Success Criteria:

System data administrator(s) trained. Roles and responsibilities defined. Processes and procedures for monitoring and corrective or preventive actions developed, documented and tested, including for alternative data source and Outage Map adjustments per 3.2.3.2 and 3.2.3.3.

## 2. Project Deliverables:

The following are the list of deliverables that will be delivered as part of the project:

Deliverable	Delivery Date	Comments
Kubra systems data administrator role, processes and procedures documentation, including training and designation plans	3/31/2021	

## **2.1. Assumptions, Dependencies, and Constraints**

### **2.1.1 Assumptions:**

- PSEG LI has the necessary resources in place from the customer technology, NOC, and application team to staff the data administrator role
- If there are no available PSEG resources, resource procurement and onboarding tasks will have to be performed
- Vendor resources will need to be available to provide documentation and answer question on monitoring applications not in control by PSEG LI
- Resource available to help on documentation of monitoring processes

### **2.1.2 Dependencies:**

- PSEG LI team has a dependency on Kubra to provide SME time for monitoring plan creation and documentation
- PSEG LI has a dependency on XTENSIBLE / OMS team for monitoring plan creation and documentation
- PSEG LI has a dependency on CGI for monitoring plan creation and documentation

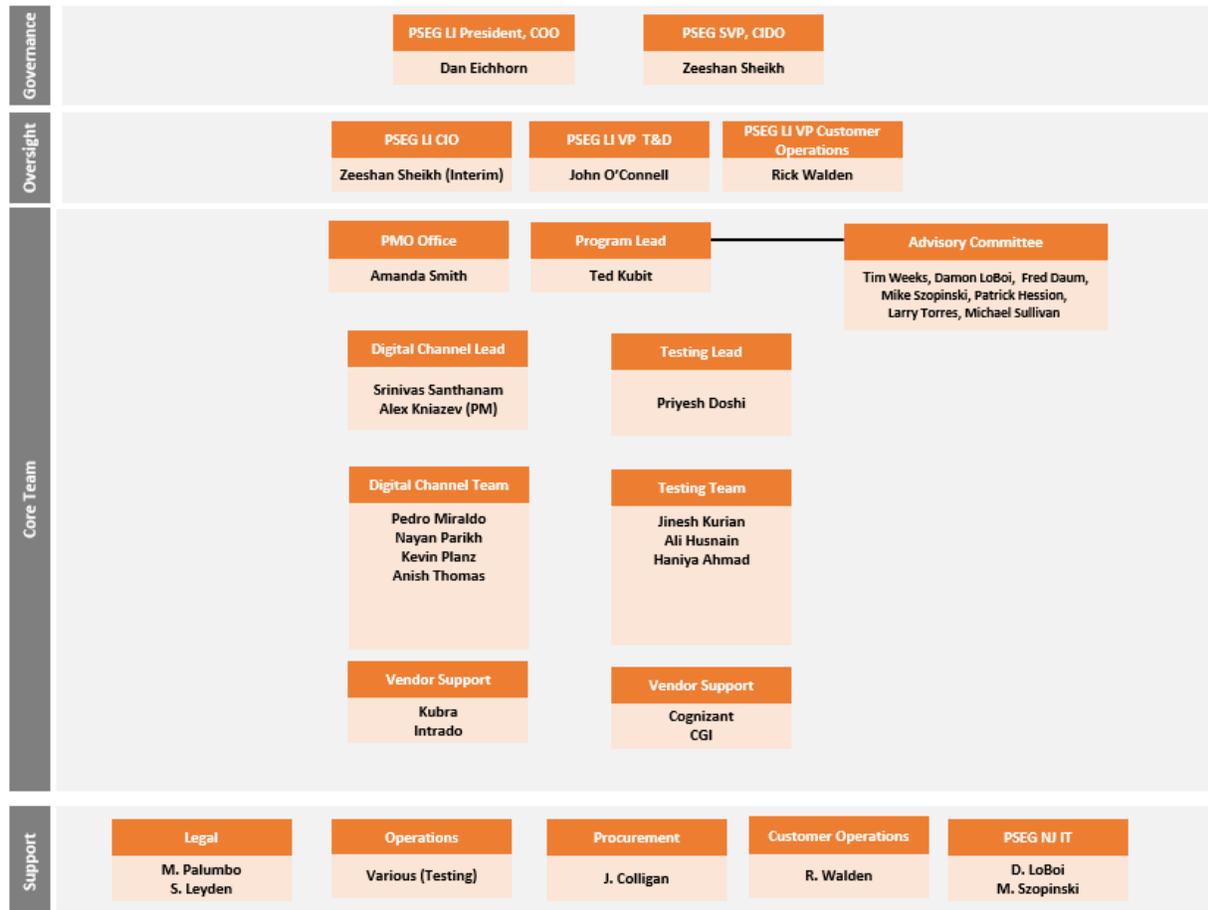
### **2.1.3 Constraints:**

- Competing projects at PSEG could affect timelines
- Storm season will be a priority for PSEG LI resources who will be unavailable when performing storm roles or resolving current production issues

### 3. Project Structure

#### 3.1. Internal Project Organization

The Digital Channels Team and Testing Team along with vendor support from Kubra, Intrado, and Cognizant will implement the Digital Channels project. The chart below shows the internal project organization and the groups responsible for the Digital Channels project:



##### 3.1.1 Roles and Responsibilities :

Roles and responsibilities for the Digital Channels Enhancement project are outlined in the table below:

Role	Name	Responsibilities
Steering Committee	Dan Eichhorn ( <i>Chair</i> ) Zeeshan Sheikh John O’Connell Rick Walden	<ul style="list-style-type: none"> <li>Championing the PSEG LI Storm Restoration initiative</li> <li>Establishing guiding principles for the project</li> <li>Ensuring project activities remained aligned with the guiding principles as defined</li> <li>Providing guidance and input on key project decisions</li> <li>Challenging the project team where appropriate</li> <li>Approving major changes to the project’s scope, objectives, timelines, costs, etc.</li> <li>Acting as the decision maker for issues requiring escalation</li> </ul>

		<ul style="list-style-type: none"> <li>• Removing institutional barriers if and when they arise by serving as a project advocate</li> </ul>
Leadership	PSEG LI CIO - Zeeshan Sheikh (Interim)	<ul style="list-style-type: none"> <li>• Ensuring workstreams adhere to guiding principles as defined by project leadership</li> <li>• Managing issues and decision making</li> <li>• Removing obstacles that impede the success of the overall project</li> <li>• Providing strategic guidance</li> <li>• Challenging the project team where appropriate</li> <li>• Approve procurement of external parties (as needed)</li> </ul>
Advisory Committee Members	Tim Weeks Damon LoBoi Mike Szopinski Fred Daum Patrick Hession Larry Torres Michael Sullivan	<ul style="list-style-type: none"> <li>• Providing guidance and input on key project decisions</li> <li>• Assisting in the procurement of external parties (as needed)</li> <li>• Removing obstacles that impede the success of the overall project</li> <li>• Providing subject matter expertise to the project</li> <li>• Challenging the project team where appropriate</li> </ul>
Digital Channel Lead	Srinivas Santhanam / Alex Kniazev (ACN)	<ul style="list-style-type: none"> <li>• Drive workstream tasks and deliver recommendations for Solution Design Specification</li> <li>• Provide support for Testing</li> <li>• Aid in the development functional requirements</li> <li>• Provide input on requirement / design</li> <li>• Coordinating Business Resources to support the project</li> <li>• Key Point of contact to for questions from the HVCA IVR vendor, Outage Map vendor and Xtensible Team</li> <li>• Providing sign off for deliverables that require business input/acceptance</li> <li>• Delivering the Digital Channels project on time and on budget</li> </ul>
Project Manager	Kevin Planz	<ul style="list-style-type: none"> <li>• Reporting overall status of the project to Stakeholders and Program Leadership</li> <li>• Identifying and escalating resource issues</li> <li>• Providing status reports for delivery to internal and external stakeholders (LIPA, DPS)</li> <li>• Manage resources, schedule, issues, risks and change requests</li> <li>• Process development, requirements definition,</li> <li>• Providing subject matter expertise to the project</li> <li>• User Impact Analysis</li> <li>• Facilitating workshops</li> </ul>
Performance Engineer	Sri Kanaparthi	<ul style="list-style-type: none"> <li>• Supporting Build/Test/Deploy Activities</li> <li>• Assist with Environment setup</li> <li>• Coordinating Development activities</li> <li>• Assist with Technical Design and Architecture</li> <li>• Assist with Transfer of Environments</li> </ul>
Technical Architect	Pedro Miraldo	<ul style="list-style-type: none"> <li>• Supporting Build/Test/Deploy Activities</li> <li>• Environment setup</li> <li>• Assist in the configuration of the Digital Channels</li> <li>• Coordinating Development activities</li> <li>• Technical Design</li> <li>• Testing Lead</li> <li>• Transfer of Environments</li> </ul>

Business Lead	Nayan Parikh	<ul style="list-style-type: none"> <li>• Process development, requirements definition, functional design</li> <li>• Technical Design</li> <li>• Supporting vendor questions and workshops</li> <li>Testing Execution</li> </ul>
Test Lead	Sikder Islam	<ul style="list-style-type: none"> <li>• Test Script Development</li> <li>• Test Script Execution for Assembly / Unit Test</li> <li>• Test Execution</li> </ul>
Environment Lead	Anish Thomas	<ul style="list-style-type: none"> <li>• Technical Design development</li> <li>• Environment design support</li> </ul>
Test Project Manager	Priyesh Doshi	<ul style="list-style-type: none"> <li>• Reporting overall testing status of the project to Stakeholders and Program Leadership</li> <li>• Identifying and escalating resource issues</li> <li>• Developing Testing Dashboard to accurately display current test execution</li> <li>• Manage resources, schedule, issues, risks and change requests</li> <li>• Providing testing subject matter expertise to the project</li> <li>• Defect Management</li> </ul>

### 3.2. Other Stakeholders

Identification of other internal and external project stakeholders is shown below:

Organization/Team	Name	Responsibilities
Long Island Power Authority	Mujib Lodhi, Rick Shansky	• Overall oversight of the entire project portfolio
Department of Public Service	Joseph Suich, Kevin Wisely	• Overall oversight of the entire project portfolio

## 4. Project Plan

### 4.1. Project Work Plan

LIPA ID	Type	Task Name	Current Status	% Complete	Target Start Date	Target Finish Date
3.2.3.1	Recommendation	At the beginning of storm planning and throughout the storm, designate a system data administrator dedicated to monitor, on a continuous basis, the timeliness, accuracy, and integrity of the information coming from OMS to Kubra.	In Progress	11%	Tue 12/1/20	Mon 3/22/21
3.2.3.1	Subtask	Preliminary Review of Tier 1 implementation plan responses (align on response and direction)	Completed	100%	Mon 1/4/21	Fri 1/8/21
3.2.3.1	Subtask	Submission date of the Tier 1 implementation plan responses to LIPA	Completed	100%	Mon 1/18/21	Mon 1/18/21
3.2.3.1	Subtask	PSEG to Identify System Data Admin Resources	In Progress	33%	Tue 12/1/20	Fri 1/15/21

3.2.3.1	Subtask	Onboard Resources (As Needed)	Not Started	0%	Mon 1/18/21	Fri 2/12/21
3.2.3.1	Subtask	Identify Application targets and thresholds	Not Started	0%	Mon 2/15/21	Mon 2/15/21
3.2.3.1	<i>Milestone</i>	<i>MS: Resources Identified</i>	<i>Not Started</i>	<i>0%</i>	<i>Wed 1/17/21</i>	<i>Wed 2/17/21</i>
3.2.3.1	Task	Develop and Document Policies, Processes and Procedures	Not Started	0%	Tue 1/19/21	Mon 3/22/21
3.2.3.1	Subtask	Engage with New Jersey SMAs to discuss best practices for monitoring and documentation	Not Started	0%	Tue 1/19/21	Wed 1/20/21
3.2.3.1	Subtask	Develop Communication Plan	Not Started	0%	Thu 1/21/21	Wed 1/27/21
3.2.3.1	<b>Document</b>	Communication Plan	Not Started	0%	Wed 1/27/21	Wed 1/27/21
3.2.3.1	Subtask	Steering Committee Charter	Not Started	0%	Thu 1/28/21	Thu 1/28/21
3.2.3.1	<b>Document</b>	Steering Committee Charter Document	Not Started	0%	Thu 1/28/21	Thu 1/28/21
3.2.3.1	Subtask	Develop a standard template for monitoring reports	Not Started	0%	Fri 1/29/21	Mon 2/1/21
3.2.3.1	<b>Document</b>	Standard template for monitoring reports	Not Started	0%	Mon 2/1/21	Mon 2/1/21
3.2.3.1	Subtask	Documenting storm procedures for monitoring	Not Started	0%	Tue 2/2/21	Mon 2/8/21
3.2.3.1	<b>Document</b>	Storm procedures for monitoring	Not Started	0%	Tue 2/2/21	Mon 2/8/21
3.2.3.1	Subtask	Developing an Escalation Path when monitoring shows errors	Not Started	0%	Tue 2/2/21	Mon 2/8/21
3.2.3.1	<b>Document</b>	Escalation Path	Not Started	0%	Tue 2/2/21	Mon 2/8/21
3.2.3.1	Subtask	Develop Cadence for monitoring reports (timeline of when reports are provided)	Not Started	0%	Tue 2/9/21	Mon 2/15/21
3.2.3.1	<b>Document</b>	Cadence for monitoring reports	Not Started	0%	Tue 2/9/21	Mon 2/15/21
3.2.3.1	Subtask	Document Corrective actions	Not Started	0%	Tue 2/9/21	Mon 2/15/21
3.2.3.1	<b>Document</b>	Corrective actions	Not Started	0%	Tue 2/9/21	Mon 2/15/21
3.2.3.1	Subtask	Document Preventative actions	Not Started	0%	Tue 2/9/21	Mon 2/15/21
3.2.3.1	<b>Document</b>	Preventative actions	Not Started	0%	Tue 2/9/21	Mon 2/15/21
3.2.3.1	Subtask	Customer Tech - Documented manual updates to the map	Not Started	0%	Tue 2/16/21	Tue 2/16/21
3.2.3.1	<b>Document</b>	Customer Tech	Not Started	0%	Tue 2/16/21	Tue 2/16/21
3.2.3.1	Subtask	Maintenance schedule	Not Started	0%	Wed 2/17/21	Wed 2/17/21
3.2.3.1	Subtask	Vendor Management / Escalation	Not Started	0%	Wed 2/17/21	Tue 2/23/21
3.2.3.1	Subtask	Develop Troubleshooting SOP's	Not Started	0%	Wed 2/17/21	Wed 2/17/21
3.2.3.1	<b>Document</b>	Troubleshooting SOP's	Not Started	0%	Wed 2/17/21	Wed 2/17/21
3.2.3.1	Task	Schedule/ Shift Rotation	Not Started	0%	Wed 2/17/21	Wed 2/17/21
3.2.3.1	Subtask	Build template Process improvement documentation (includes gap analysis,	Not Started	0%	Wed 2/24/21	Thu 2/25/21

		identification of proactive solutions and RCA after each storm event)				
3.2.3.1	Subtask	Walk through of all Processes and Procedures with Trained Resources to Validate	Not Started	0%	Fri 2/26/21	Thu 3/4/21
3.2.3.1	<b>Document</b>	Walk through of all Processes and Procedures with Trained Resources to Validate	Not Started	0%	Fri 2/26/21	Thu 3/4/21
3.2.3.1	Subtask	Steering Committee Review of documentation	Not Started	0%	Fri 3/5/21	Mon 3/8/21
3.2.3.1	<i>Milestone</i>	<i>MS: Steering Committee Approval</i>	<i>Not Started</i>	<i>0%</i>	<i>Mon 3/8/21</i>	<i>Mon 3/8/21</i>
3.2.3.1	Subtask	System Data Administrator Training (Business function, system, Storm Scenario)	Not Started	0%	Tue 3/9/21	Mon 3/22/21

#### 4.2. Risk Management Plan

The table below outlines the applicable risks and associated risk mitigations for the Digital Channels project.

Category	Project Risk	Mitigation
<b>Resources</b>	Resource constraints from Digital team due to competing projects	Assign and commit business and IT resources and verify they are available to support this project. As necessary, hire contract resources to back fill normal job responsibilities
<b>Resources</b>	No holistic solution owner from PSEG LI to oversee entirety of solution	PSEG LI to designate a resource to be the holistic oversight for entire solution
<b>Resources</b>	Availability of resources due to other Storm duty priorities	Careful prioritization of projects with LIPA recommendations as top priority in order to complete all tasks/milestones on time.
<b>Schedule / Cost</b>	Contract negotiation could delay project due to multiple vendor partners involved for making changes to the entire architecture	PSEG LI to expedite contract approvals and determine if there are options for performing some work internally
<b>Schedule / Cost</b>	Vendor delays cause the schedule to shift and key project milestones are not able to be met on time	Work with the vendor to quickly resolve impediments
<b>Schedule / Cost</b>	The activities outlined in the Digital Channels project become more complex than anticipated	Review the additional work required to complete the project with the steering committee. Add the scope required complete the project to the implementation plan. Clearly identify the steps that will be taken to anticipate this complexity in future projects
<b>Program Management</b>	Lack of Scope/Requirements control including changes needed to legacy IT systems	Lack of scope/requirements control is the leading cause of budget and schedule overruns for this scale of project. It will be critical to closely define project scope/requirements, quickly clarify any uncertainties as they arise, and escalate as required. Any changes in

		scope/requirements must be agreed-to by the executive steering committee
<b>Program Management</b>	Additional recommendations for improvement are developed and will need to be added to this workstream	Additional recommendations that have activities similar to those addressed in this project will be identified and logically grouped within tracks. Resource requirements will be identified. Where necessary, contract resources will be hired to back fill normal job responsibilities

### 4.3. Issue Resolution Plan

Issues and risks will be identified by the PSEG LI Team and the PMO daily. These items will be logged in an issue/risk tracker. The information in the tracker will be reviewed by the steering committee each week. The steering committee will determine the appropriate actions (if necessary) to get the project on track. The issue/risk tracker will be used to track items to closure, identifying the resolution date and course of action taken.

### 4.4. LIPA Reporting Plan

Weekly status reports for all recommendations, containing project progress and documentation will be provided to LIPA by Zeeshan Sheikh.

## 5. Technical Execution Plan

### 5.1. Technical Approach

This recommendation calls for the designation of a system data administrator, the creation of documentation around the monitoring processes they will undertake as well as a role description of the position.

- For training resources, we will use a combination of Microsoft Office, web-based training such as Service Now/ Empower
- Documentation will be created in Microsoft office

### 5.2. Quality Assurance Plan

#### 5.2.1 QA Methodology:

The team will adhere to the PSEG’s IT standards for the deployment of this project. PSEG LI IT SharePoint will be used as the document repository.

- The deliverables will follow the following QA processes:
  - Team lead review and signoff
  - Peer Review (PSEG)
  - Subject Matter Advisor Review as necessary
  - PSEG Signoff by PSEGLI CIO and President & COO of PSEGLI
  - Independent Verification and Validation by LIPA CIO
- An individual test plan will be created, and for this recommendation it will include the following: Scope of testing, Test Criteria, Tests to be performed (e.g.: Functional, Acceptance, Regression, Performance Testing, End to end)
- Test plan and test results will be signed off by PSEGLI CIO and President & COO of PSEGLI, and shared with LIPA upon completion

**5.3. Documentation Plan**

Throughout the project lifecycle the implementation team will document and deliver the key deliverables as listed above in Section 2. The due date of each deliverable will be based off the Project Schedule as outlined in Section 4.1. A final Project Closure Document will be delivered once all LIPA Recommendations in this implementation plan are completed.

<b>Deliverable</b>	<b>Delivery Date</b>	<b>Comments</b>
Kubra systems data administrator role, processes and procedures documentation, including training and designation plans	3/31/2021	

## **Revision History**

<b>Name</b>	<b>Date</b>	<b>Reason for Changes</b>	<b>Version</b>
Haniya Ahmad	12/10/2020	Initial Draft	1.0
Kevin Planz / Srinivasan Santhanam	12/10/2020	Updated draft	1.1

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# **PSEG Long Island**

## **Project Implementation Plan**

### **For Isaias Task Force Recommendation Implementations**

#### **Recommendation No. 3.2.4.3**

**Project Title: 3.2.4.3 Introduce the capability to quickly decouple the web and mobile apps from the OMS, so that when unresponsiveness is detected, alternate messaging can be provided to the customer and the OMS can be relieved of incoming transactional pressure\***

*\*This recommendation has been previously accepted with comments. The document has been updated to reflect comments received.*

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## **1. Project Definition**

PSEG Long Island provides multiple digital channels to customers and stakeholders for both routine and storm and outage related communications. Routine communications include account, billing, and energy usage information; Storm and outage communications include downed wire and outage reporting, customer status and estimated restoration times; overall system status and service restoration activities; and pre-storm notifications.

The project goal is to verify that customers are still able to contact PSEG through the mobile and corporate website in the event of an OMS failure. The objectives as well as end state and success criteria of the project are defined below.

Any mention of the “Digital Channels” in this document refers to the following channels:

- PSEG LI Mobile App
- PSEG public website
- MyAccount Customer Portal

### **1.1. Project Purpose, Objectives, and Success Criteria**

#### ***1.1.1 Project Objectives:***

The objectives of the project are:

1. Introduce the capability to quickly decouple the web and mobile apps from the OMS when unresponsiveness is detected
2. Provide alternate messaging to the customer in the event OMS is unresponsive
3. Control processing conducted by OMS in real time during storm events

***Note:** While the original intent of the recommendation refers solely to the mobile app and web interface with OMS, the solution PSEG LI is pursuing in decoupling the OMS will also address other digital channels including IVR, HVCA, Kubra, Google, Alexa.*

#### ***1.1.2 Project End State and Success Criteria:***

Web and mobile apps are functional in the absence of OMS. Outage reports are directed to an alternative data sink which can be consumed by alternate and deferred pathways.

## 2. Project Deliverables

Deliverable	Delivery Date	Comments
Create Functional Design - OMS Reporting DB/ New Stored Procedure / Outage hub view/ Replication	Fri 1/29/21	Design documentation to capture requirements, create RTM
Create Technical Design - OMS Reporting DB/ New Stored Procedure / Outage hub view/ Replication	Wed 3/3/21	Technical details of solution build
Create Test Strategy / Test Plan	Fri 1/29/21	Test plan for initiative
Document Testing Results	Fri 3/26/21	Testing results for solution
Document Process Steps for operationalizing the solution (BCP)	Tue 3/30/21	Process documentation for solution
All configuration items in CDBM	Fri 4/7/2021	

### 2.1. Assumptions, Dependencies, and Constraints

#### 2.1.1 Assumptions:

- PSEG LI has the necessary resources in place from an internal and third-party standpoint to complete all objectives/recommendations including implementation work as needed
- There will be no time included in the schedule for exploration of additional third-party vendors for enhanced solutions. The project team will move forward to implement recommendations and enhanced solutions for the existing PSEG LI framework and vendor partnerships
- Vendor resources will be available to provide SME time and answer any questions for respective applications
- Any data not sent to OMS will have to be resynced with OMS after transactional pressures are relieved
- Assuming team can leverage 5.5 OMS test environment
- Penetration testing can be done at the same time as performance testing
- Assuming no changes to outage hub view / schema in production OMS 5.5 for development purposes
- Assuming infrastructure DBA resources are available for stand up of database with no competing priority projects

#### 2.1.2 Dependencies:

- PSEG LI has a dependency on XTENSIBLE for performing changes on the Sonic / MuleSoft ESB
- PSEG LI has a dependency on CGI in modifications made to the web services on the OMS to provide outage status and report outages
- PSEG LI has a dependency on the OMS team to ensure the OMS is stood up and available for end to end testing activities requiring the digital channels
- Solution developed for CGI OMS 5.5 will be ported over to 6.7
- Performance testing requirement for stored procedure and outage hub view

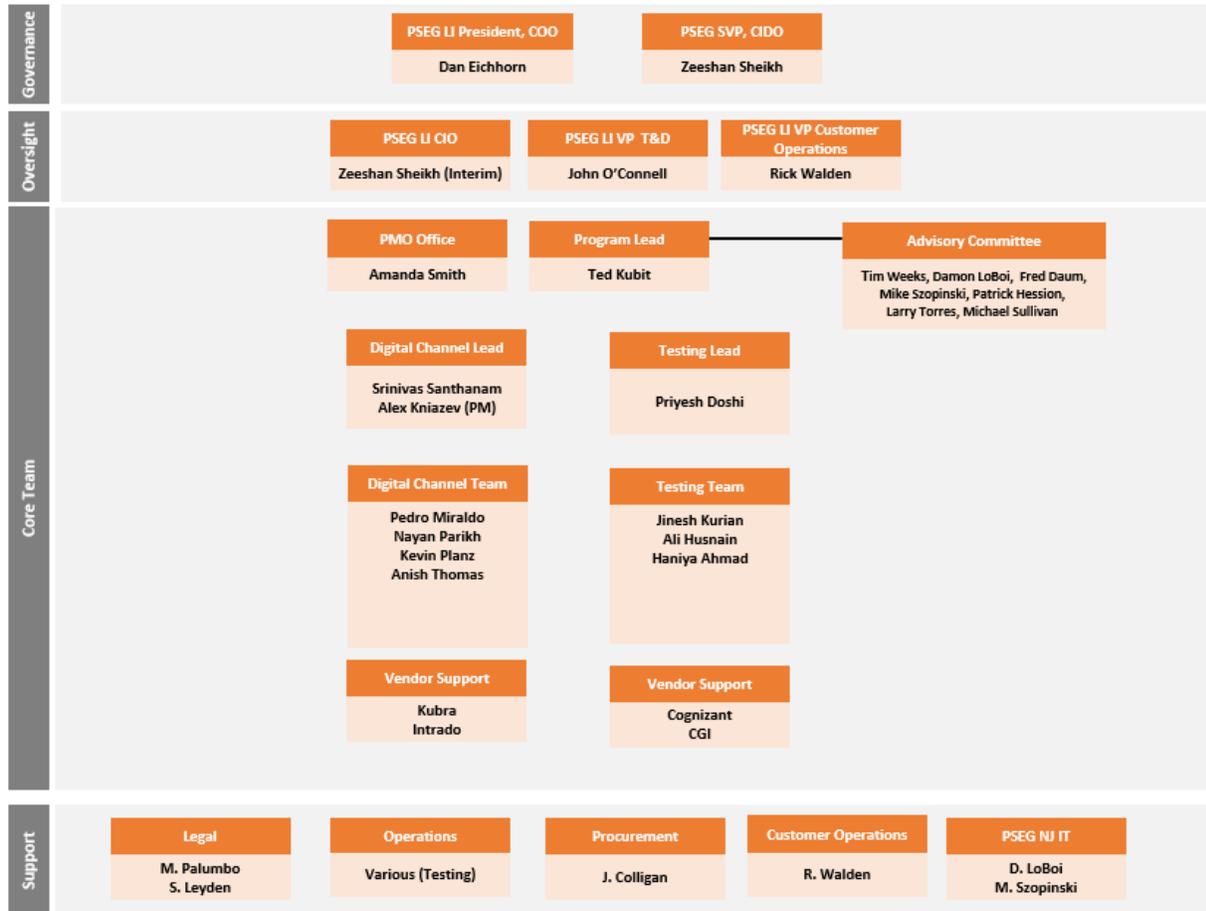
#### 2.1.3 Constraints:

- Competing projects at PSEG could affect timelines
- Storm season will be a priority for PSEG LI resources who will be unavailable when performing storm roles or resolving current production issues

### 3. Project Structure

#### 3.1. Internal Project Organization

The Digital Channels Team and Testing Team along with vendor support from Kubra, Intrado, and Cognizant will implement the Digital Channels project. The chart below shows the internal project organization and the groups responsible for the Digital Channels project:



##### 3.1.1 Roles and Responsibilities :

Roles and responsibilities for the Digital Channels Enhancement project are outlined in the table below:

Role	Name	Responsibilities
Steering Committee	Dan Eichhorn ( <i>Chair</i> ) Zeeshan Sheikh John O’Connell Rick Walden	<ul style="list-style-type: none"> <li>Championing the PSEG LI Storm Restoration initiative</li> <li>Establishing guiding principles for the project</li> <li>Ensuring project activities remained aligned with the guiding principles as defined</li> <li>Providing guidance and input on key project decisions</li> <li>Challenging the project team where appropriate</li> <li>Approving major changes to the project’s scope, objectives,</li> </ul>

		<p>timelines, costs, etc.</p> <ul style="list-style-type: none"> <li>• Acting as the decision maker for issues requiring escalation</li> <li>• Removing institutional barriers if and when they arise by serving as a project advocate</li> </ul>
Leadership	PSEG LI CIO - Zeeshan Sheikh (Interim)	<ul style="list-style-type: none"> <li>• Ensuring workstreams adhere to guiding principles as defined by project leadership</li> <li>• Managing issues and decision making</li> <li>• Removing obstacles that impede the success of the overall project</li> <li>• Providing strategic guidance</li> <li>• Challenging the project team where appropriate</li> <li>• Approve procurement of external parties (as needed)</li> </ul>
Advisory Committee Members	Tim Weeks Damon LoBoi Mike Szopinski Fred Daum Patrick Hession Larry Torres Michael Sullivan	<ul style="list-style-type: none"> <li>• Providing guidance and input on key project decisions</li> <li>• Assisting in the procurement of external parties (as needed)</li> <li>• Removing obstacles that impede the success of the overall project</li> <li>• Providing subject matter expertise to the project</li> <li>• Challenging the project team where appropriate</li> </ul>
Digital Channel Lead	Srinivas Santhanam / Alex Kniazev (ACN)	<ul style="list-style-type: none"> <li>• Drive workstream tasks and deliver recommendations for Solution Design Specification</li> <li>• Provide support for Testing</li> <li>• Aid in the development functional requirements</li> <li>• Provide input on requirement / design</li> <li>• Coordinating Business Resources to support the project</li> <li>• Key Point of contact to for questions from the HVCA IVR vendor, Outage Map vendor and Xtensible Team</li> <li>• Providing sign off for deliverables that require business input/acceptance</li> <li>• Delivering the Digital Channels project on time and on budget</li> </ul>
Project Manager	Kevin Planz	<ul style="list-style-type: none"> <li>• Reporting overall status of the project to Stakeholders and Program Leadership</li> <li>• Identifying and escalating resource issues</li> <li>• Providing status reports for delivery to internal and external stakeholders (LIPA, DPS)</li> <li>• Manage resources, schedule, issues, risks and change requests</li> <li>• Process development, requirements definition,</li> <li>• Providing subject matter expertise to the project</li> <li>• User Impact Analysis</li> <li>• Facilitating workshops</li> </ul>
Performance Engineer	Sri Kanaparth	<ul style="list-style-type: none"> <li>• Supporting Build/Test/Deploy Activities</li> <li>• Assist with Environment setup</li> <li>• Coordinating Development activities</li> <li>• Assist with Technical Design and Architecture</li> <li>• Assist with Transfer of Environments</li> </ul>
Technical Architect	Pedro Miraldo	<ul style="list-style-type: none"> <li>• Supporting Build/Test/Deploy Activities</li> <li>• Environment setup</li> <li>• Assist in the configuration of the Digital Channels</li> <li>• Coordinating Development activities</li> <li>• Technical Design</li> <li>• Testing Lead</li> <li>• Transfer of Environments</li> </ul>

Business Lead	Nayan Parikh	<ul style="list-style-type: none"> <li>• Process development, requirements definition, functional design</li> <li>• Technical Design</li> <li>• Supporting vendor questions and workshops</li> <li>• Testing Execution</li> </ul>
Test Lead	Sikder Islam	<ul style="list-style-type: none"> <li>• Test Script Development</li> <li>• Test Script Execution for Assembly / Unit Test</li> <li>• Test Execution</li> </ul>
Environment Lead	Anish Thomas	<ul style="list-style-type: none"> <li>• Technical Design development</li> <li>• Environment design support</li> </ul>
Test Project Manager	Priyesh Doshi	<ul style="list-style-type: none"> <li>• Reporting overall testing status of the project to Stakeholders and Program Leadership</li> <li>• Identifying and escalating resource issues</li> <li>• Developing Testing Dashboard to accurately display current test execution</li> <li>• Manage resources, schedule, issues, risks and change requests</li> <li>• Providing testing subject matter expertise to the project</li> <li>• Defect Management</li> </ul>

### 3.2. Other Stakeholders

Identification of other internal and external project stakeholders is shown below:

Organization/Team	Name	Responsibilities
Long Island Power Authority	Mujib Lodhi, Rick Shansky	<ul style="list-style-type: none"> <li>• Overall oversight of the entire project portfolio</li> </ul>
Department of Public Service	Joseph Suich, Kevin Wisely	<ul style="list-style-type: none"> <li>• Overall oversight of the entire project portfolio</li> </ul>

## 4. Project Plan

### 4.1 Project Work Plan

LIPA ID	Type	Task Name	Current Status	% Complete	Start	Finish
3.2.4.3	<b>Recommendation</b>	<b>Decouple OMS from the website and Mobile App</b>	<b>In Progress</b>	<b>2%</b>	Wed 1/6/21	Wed 4/7/21
3.2.4.3	Subtask	Preliminary Review of Tier 1 implementation plan responses (align on response and direction)	Complete	100%	Wed 1/6/21	Fri 1/8/21
3.2.4.3	Subtask	Internal PSEG approval of proposed architecture	Complete	100%	Fri 1/15/21	Fri 1/15/21
3.2.4.3	Subtask	Submission date of the Tier 1 implementation plan responses to LIPA	In Progress	75%	Mon 1/18/21	Mon 1/18/21
3.2.4.3	Subtask	Confirm resources for stored procedure development / golden gate replication	In Progress	75%	Fri 1/15/21	Fri 1/15/21
3.2.4.3	Subtask	Create Functional Design - OMS Reporting DB/ New Stored Procedure / Outage hub view/ Replication	Not Started	0%	Mon 1/18/21	Fri 1/29/21
3.2.4.3	<i>Milestone</i>	<i>MS: RTM Documentation Complete / LIPA Review</i>	<i>Not Started</i>	<i>0%</i>	<i>Fri 1/29/21</i>	<i>Fri 1/29/21</i>
3.2.4.3	Subtask	Software license procurement for database and replication method (as needed)	Not Started	0%	Mon 2/1/21	Fri 2/12/21
3.2.4.3	Subtask	Design Review and Sign Off	Not Started	0%	Mon 2/1/21	Wed 2/3/21
3.2.4.3	<i>Milestone</i>	<i>MS: Design Complete</i>	<i>Not Started</i>	<i>0%</i>	<i>Wed 2/3/21</i>	<i>Wed 2/3/21</i>
3.2.4.3	<b>Build Phase</b>		<b>Not Started</b>	<b>0%</b>	<b>Thu 2/4/21</b>	<b>Wed 3/3/21</b>
3.2.4.3	Header Task	Develop stored procedure on 5.5 DR	Not Started	0%	Thu 2/4/21	Wed 3/3/21
3.2.4.3	Subtask	Create Technical Design - OMS Reporting DB/ New Stored Procedure / Outage hub view/ Replication	Not Started	0%	Thu 2/4/21	Wed 3/3/21
3.2.4.3	Subtask	Stand up and Configuration of new database	Not Started	0%	Mon 2/15/21	Fri 2/26/21
3.2.4.3	<i>Milestone</i>	<i>MS: Build Complete</i>	<i>Not Started</i>	<i>0%</i>	<i>Wed 3/3/21</i>	<i>Wed 3/3/21</i>
3.2.4.3	<b>Test Phase</b>		<b>Not Started</b>	<b>0%</b>	<b>Mon 1/18/21</b>	<b>Tue 4/6/21</b>
3.2.4.3	Subtask	Create Test Strategy / Test Plan	In Progress	25%	Mon 1/18/21	Fri 1/29/21
3.2.4.3	Subtask	Set up test data	Not started	0%	Mon 2/22/21	Fri 2/26/21

3.2.4.3	Subtask	SIT/load test of the solution with benchmark monitoring	Not Started	0%	Thu 3/4/21	Wed 3/17/21
3.2.4.3	Subtask	Defect Resolution	Not Started	0%	Thu 3/18/21	Wed 3/24/21
3.2.4.3	Subtask	SIT/ load test Review and Sign Off	Not Started	0%	Thu 3/25/21	Wed 3/31/21
3.2.4.3	<i>Milestone</i>	<i>MS: SIT / UAT Sign off</i>	<i>Not Started</i>	<i>0%</i>	<i>Wed 3/31/21</i>	<i>Wed 3/31/21</i>
3.2.4.3	Subtask	Document Testing Results	Not Started	0%	Thu 3/25/21	Fri 3/26/21
3.2.4.3	Subtask	Document Process Steps for operationalizing the solution (BCP)	Not Started	0%	Mon 3/29/21	Tue 3/30/21
3.2.4.3	<b>Document</b>	Review and sign off on final solution	Not Started	0%	Wed 3/31/21	Tue 4/6/21
3.2.4.3	<i>Milestone</i>	<i>MS: Solution Acceptance</i>	<i>Not Started</i>	<i>0%</i>	<i>Tue 4/6/21</i>	<i>Tue 4/6/21</i>
3.2.4.3	Subtask	Deployment of solution	Not Started	0%	Wed 4/7/21	Wed 4/7/21
3.2.4.3	<i>Milestone</i>	<i>MS: Solution Deployed</i>	<i>Not Started</i>	<i>0%</i>	<i>Wed 4/7/21</i>	<i>Wed 4/7/21</i>

#### 4.1. Risk Management Plan

The table below outlines the applicable risks and associated risk mitigations for the Digital Channels project.

Category	Project Risk	Mitigation
<b>Resources</b>	Resource constraints from Digital team due to competing projects	Assign and commit business and IT resources and verify they are available to support this project. As necessary, hire contract resources to back fill normal job responsibilities
<b>Resources</b>	No holistic solution owner from PSEG LI to oversee entirety of solution	PSEG LI to designate a resource to be the holistic oversight for entire solution
<b>Resources</b>	Availability of resources due to other Storm duty priorities	Careful prioritization of projects with LIPA recommendations as top priority in order to complete all tasks/milestones on time
<b>Schedule / Cost</b>	Contract negotiation could delay project due to multiple vendor partners involved for making changes to the entire architecture	PSEG LI to expedite contract approvals and determine if there are options for performing some work internally
<b>Schedule / Cost</b>	Vendor delays cause the schedule to shift and key project milestones are not able to be met on time	Work with the vendor to quickly resolve impediments.
<b>Schedule / Cost</b>	The activities outlined in the Digital Channels project become more complex than anticipated	Review the additional work required to complete the project with the steering committee. Add the scope required complete the project to the implementation plan. Clearly identify the steps that will be taken to anticipate this complexity in future projects

<b>Program Management</b>	Lack of Scope/Requirements control including changes needed to legacy IT systems	Lack of scope/requirements control is the leading cause of budget and schedule overruns for this scale of project. It will be critical to closely define project scope/requirements, quickly clarify any uncertainties as they arise, and escalate as required. Any changes in scope/requirements must be agreed-to by the executive steering committee
<b>Program Management</b>	Additional recommendations for improvement are developed and will need to be added to this work stream	Additional recommendations that have activities similar to those addressed in this project will be identified and logically grouped within tracks. Resource requirements will be identified. Where necessary, contract resources will be hired to back fill normal job responsibilities

**4.2. Issue Resolution Plan**

Issues and risks will be identified by the PSEG LI Team and the PMO daily. These items will be logged in an issue/risk tracker. The information in the tracker will be reviewed by the steering committee each week. The steering committee will determine the appropriate actions (if necessary) to get the project on track. The issue/risk tracker will be used to track items to closure, identifying the resolution date and course of action taken.

**4.3. LIPA Reporting Plan**

Weekly status reports for all recommendations, containing project progress and documentation will be provided to LIPA by Zeeshan Sheikh.

**5. Technical Execution Plan**

**5.1. Technical Approach**

*5.1.1 Configuration of Applications:*

For any changes to configuration of applications, vendors will be contacted when needed and internal infrastructure will be adjusted accordingly. Testing will be executed to verify changes are working as intended.

*5.1.2 Changes to webservices:*

Changes will need to be made to the GetTroubleTicket and GetOutages webservice to refactor and repoint (respectively) to the new database.

*5.1.3 Changes to infrastructure:*

PSEG LI will procure a new reporting database to be the source for providing outage status request responses as well as outage information for the customer facing outage map and municipal portal. This database is meant to relieve transactional pressure on the real time CGI OMS as well as the DR OMS system in production at PSEG. The current approach calls for the team to undergo a design effort to determine:

1. The method of replication from current OMS to the new database

2. Functionality review of a stored procedure which will replace the current functionality of the CGI OMS getlistcustomerinterruption webservice
3. The repointing of existing ESB webservices to query the new database
4. This new database will be used in conjunction with the ESB Queuing enhancements in recommendation 4.17 to provide customers with alternate messaging upon requests entering the queue

The current approach calls for the team to proceed with development for implementation on the current 5.5 DR database as this approach will allow for faster realization of benefits and performance improvements. The development effort for CGI OMS 5.5 will then be refactored for CGI OMS 6.7. Detailed design discussions occurring in the future could affect the approach as new information is obtained and efficiencies are explored.

## 5.2. Quality Assurance Plan

### 5.2.1 QA Methodology:

- The team will adhere to the PSEG’s IT standards for the deployment of this project. PSEG LI IT SharePoint will be used as the document repository  
 The deliverables will follow the following QA processes:
  - i. Team lead review and signoff
  - ii. Peer Review (PSEG)
  - iii. Subject Matter Advisor Review as necessary
  - iv. PSEG Signoff by PSEGLI CIO and President & COO of PSEGLI
  - v. Independent Verification and Validation by LIPA CIO
- An individual test plan will be created, and for this recommendation it will include the following: Scope of testing, Test Criteria, Tests to be performed (e.g.: Functional, Acceptance, Regression, Performance Testing, End to end)
- Test plan and test results will be signed off by PSEGLI CIO and President & COO of PSEGLI, and shared with LIPA upon completion

### 5.2.2 Test Scope:

Testing of incoming calls from a future storm will incorporate the following digital channels:

Channel	Test Plan (High Level)	Test Outcome
<b>PSEG LI Mobile App</b>	Simulate incoming outage calls from this channel	Verify Middleware captures incoming outage calls and prevents transfer to OMS
<b>PSEG public website</b>	Simulate incoming outage calls from this channel	Verify Middleware captures incoming outage calls and prevents transfer to OMS
<b>MyAccount Customer Portal</b>	Simulate incoming outage calls from this channel	Verify Middleware captures incoming outage calls and prevents transfer to OMS

## 5.3. Documentation Plan

Throughout the project lifecycle the implementation team will document and deliver the key deliverables as listed above in Section 2. The due date of each deliverable will be based off the Project Schedule as outlined in Section 4.1. A final Project Closure Document will be delivered once all LIPA Recommendations in this implementation plan are completed.

<b>Deliverable</b>	<b>Delivery Date</b>	<b>Comments</b>
Create Functional Design - OMS Reporting DB/ New Stored Procedure / Outage hub view/ Replication	Fri 1/29/21	Design documentation to capture requirements, create RTM
Create Technical Design - OMS Reporting DB/ New Stored Procedure / Outage hub view/ Replication	Wed 3/3/21	Technical details of solution build
Create Test Strategy / Test Plan	Fri 1/29/21	Test plan for initiative
Document Testing Results	Fri 3/26/21	Testing results for solution
Document Process Steps for operationalizing the solution (BCP)	Tue 3/30/21	Process documentation for solution
All configuration items in CDBM	Fri 7/30/2021	

## **Revision History**

<b>Name</b>	<b>Date</b>	<b>Reason for Changes</b>	<b>Version</b>
Alexander Kniazev/Pedro Miraldo	12/10/2020	Initial Draft	1.0
Alex Kniazev/ Srini/Kevin	12/11/2020	Updated Draft	1.1

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**PSEG Long Island**

**Project Implementation Plan**

**for**

**Isaias Task Force Recommendation Implementations**

**Project Title: ETR Quality Control Plan**

The following Isaias Task Force recommendation is directly addressed as part of this plan:

LIPA ID	Report	Task Force recommendations directly addressed in this plan
3.2.5.3	30 Day Report	PSEG Long Island should also work to install end-to-end quality control measures for communication of ETRs. Consistency across communications channels is critical in developing confidence in the restoration effort.

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DRAFT

## **1. Project Definition**

The Purpose of the Estimated Time of Restoration (“ETR”) Quality Control Plan is to address LIPA’s Tier 2 recommendation to install end-to-end quality control measures for communication of ETRs and consistency and confidence across communications channels. The Escalation Manager and the newly created and appointed ETR Manager will be responsible for administering and executing the deliverables outlined in this plan.

The recommendation is directly addressed and detailed in this plan and remediation efforts will begin immediately to the extent they are not already in process.

### **1.1. Project Purpose, Objectives, and Success Criteria**

#### ***1.1.1 Project Objectives:***

The Task Force identified several critical breakdowns in PSEG Long Island’s ETR processes and communications; many of which contributed to the issues experienced during Tropical Storm Isaias. The goal of this plan is to focus on improving the accuracy of ETR communications during an event.

#### ***1.1.2 Project Scope:***

PSEG Long Island experienced a breakdown of the ETR program after the storm caused in part by a lack of end-to-end quality control for ETR. ERIP-OPS-006 Estimated Time of Restoration (ETR) Strategy sets forth the process in which the ETR Strategy team will determine the ETR Strategy that will be communicated to internal stakeholders. Based upon the strategy, Corporate Communications will issue a press release. The press release will go through the approval process described herein. Once the press release is approved, it will be disseminated to internal stakeholders for communication to customers and external stakeholders. The new ETR Manager (as described in the ETR Manager plan) will be responsible for the administration of the quality control process for ETR customer communications.

#### ***1.1.3 Project End State and Success Criteria:***

The project’s goal is to develop a documented quality control process for ETR customer communications. The ETR Manager will administer the quality control process. The ETR Manager will report up to the Manager of Distribution Operations Support.<sup>1</sup>

## **2. Project Deliverables**

The project’s ultimate deliverable is a documented quality control process for ETR customer communications. The detailed work plan and status updates are listed in Section 4.1 Project Work Plan.

In an effort to improve ETR communications, PSEG Long Island has already revised the approval process for approving press releases and ETR notifications during a storm. See

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<sup>1</sup> See Appendix I: PSEG Long Island Functional Organization

Appendix II: Storm Communications Approval Process.

In addition, the ETR Strategy document for Operations has been updated to detail the process for the development of ETRs by PSEG Long Island T&D Operations and is used in customer and stakeholder outage communications during all storm events. See Artifact section 5.

### 2.1. Assumptions, Dependencies, and Constraints

With any operating model changes, dependencies and ripple effects will conflict with other ongoing initiatives. PSEG Long Island will first address the changes at the executive leadership level and allow the future leadership team – in this case, the new ETR Manager and Manager of District Operations Support- to oversee the execution of this plan.

The primary constraint for this plan is the hiring cycle time. In the current business environment, recruiting, onboarding, and training employees takes time and should not be rushed. Nevertheless, the target date for completion of this aspect of the overall plan is by March 31, 2021. With this in mind, identifying these candidates will be a top priority for PSEG Long Island leadership.

## 3. Project Structure

### 3.1. Internal Project Organization

Dan Eichhorn will be the Executive Sponsor for this Project. John O’Connell will provide key executive level support and subject-matter expertise, along with the new Manager of District Operation Support. The new ETR Manager will provide project management support.

Role	Responsibilities
<b>Project Sponsor</b> Dan Eichhorn	<ul style="list-style-type: none"> <li>• Manage issues and decision making</li> <li>• Remove obstacles that impede the success of the overall project</li> <li>• Provide strategic guidance</li> <li>• Approve procurement of external parties (as needed)</li> <li>• Establish guiding principles for the project</li> <li>• Provide guidance and input on key project decisions</li> <li>• Monitor completion of activities</li> <li>• Challenge the project team where appropriate</li> <li>• Approve major changes to the project’s scope, objectives, timelines, costs, etc.</li> <li>• Act as the decision maker for issues requiring escalation</li> <li>• Remove institutional barriers if and when they arise by serving as a project advocate</li> </ul>
<b>Key Executive Support</b> John O’Connell	<ul style="list-style-type: none"> <li>• Provide strategic direction and input on governance</li> </ul>
<b>Project Management</b> New ETR Manager	<ul style="list-style-type: none"> <li>• Lead process to document internal controls</li> </ul>

### 3.2. Other Stakeholders

The other key stakeholders are:

- PSEG parent company
- LIPA
- LIPA Board of Trustees
- Customers

## 4. Project Plan

### 4.1. Project Work Plan

The following outlines the timeline for completion of the key milestones. Senior Leadership is committed to achieving these milestones in order to address the Task Force recommendations.

Important underlying components of these milestones will necessarily include the end-to-end processes of identifying and hiring the right talent and realigning current resources to achieve higher transparency and accountability. PSEG Long Island is also committed to continuous improvement in the form of developing appropriate training and corrective action programs required to sustain effective ETR management once these key milestones are met.

#### *ETR Quality Control Plan Milestones*

Task	Owner	Current Status	Target End Date
PSEG Long Island should also work to install end-to-end quality control measures for communication of ETRs. Consistency across communications channels is critical in developing confidence in the restoration effort.	Suzanne Brienza	In Progress	03/31/2021
Update storm communication approval process	Ashley Chauvin	Complete	Complete
Document internal controls	Suzanne Brienza	Pending	03/31/2021
Submit updated internal control guidance to LIPA for review	Daniel Eichhorn	Pending	03/31/2021

### 4.2. Risk Mitigation Plan

Category	Project Risk	Mitigation
Resources	Filling the newly created senior management positions with capable and qualified personnel is essential to the success of any operating model change.	PSEG Long Island commits to continuously update the Task Force with hiring status updates in order to ensure transparency in the talent acquisition process and alert the Task Force of any delays that could push back the organizational structure changes PSEG Long Island is committed to making in the timeframe outlined above.

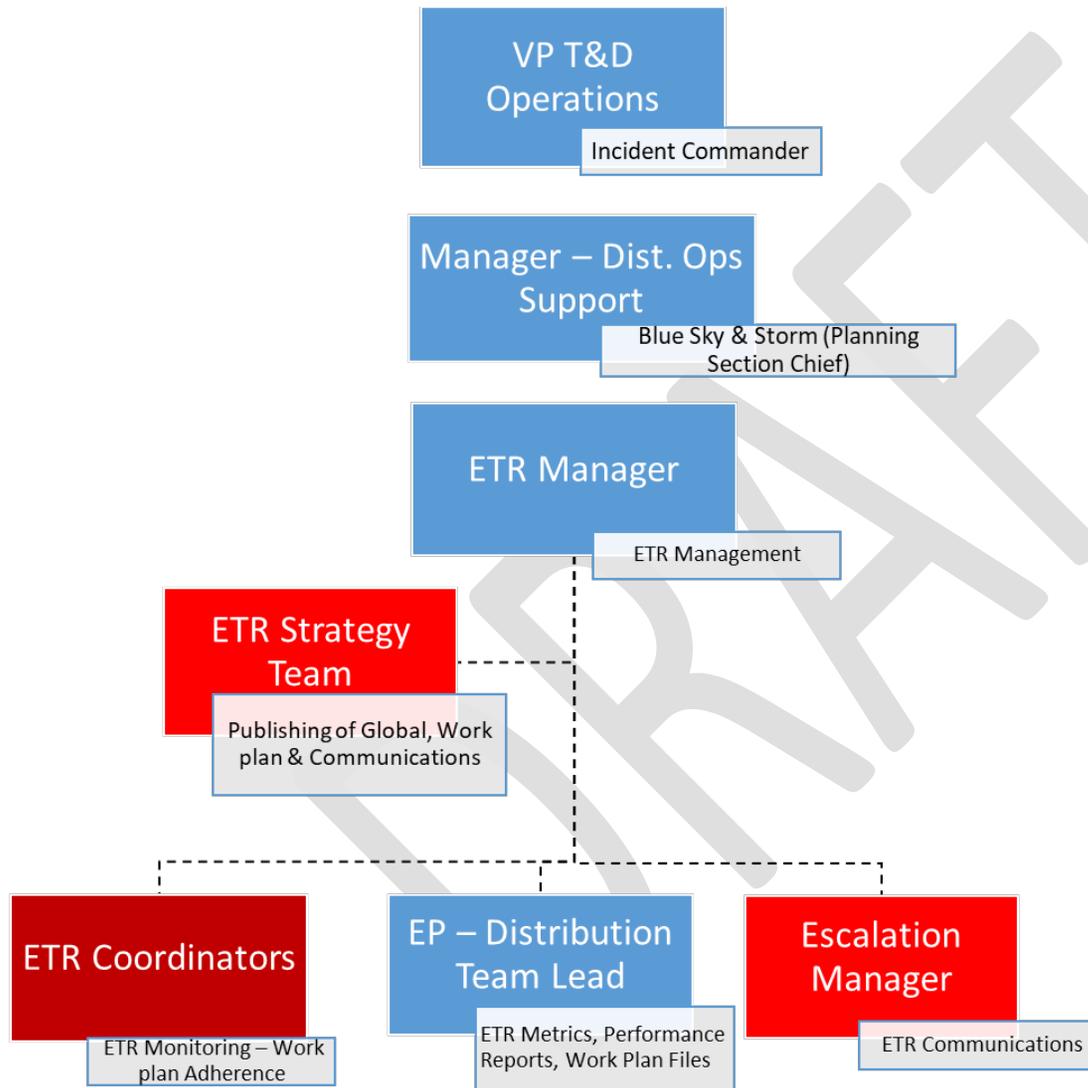
## 5. Project Artifacts

Project Artifacts	Artifact
Design Document	
Procedure Document – ETR Strategy - Operations	 ERIP-OPS-006.pdf

## Revision History

Name	Date	Reason for Changes	Version
D. Abayarathna	12/14/2020	Initial draft	1.0 draft 1
M. Davis	12/14/2020	Minor updates throughout	1.0 draft 2
S. Brienza	1/4/2021	Updates throughout	Draft 3
J. Goldsmith	1/11/2021	Formatting updates	Draft 4

## Appendix I: PSEG Long Island Functional Organization



## Appendix II: Storm Communications Approval Process

PSEG Long Island revisited the Corporate Communications materials review and approval process, outlined below, in order to incorporate lessons learned from Tropical Storm Isaias.

