

Exhibit 1
Incident Report

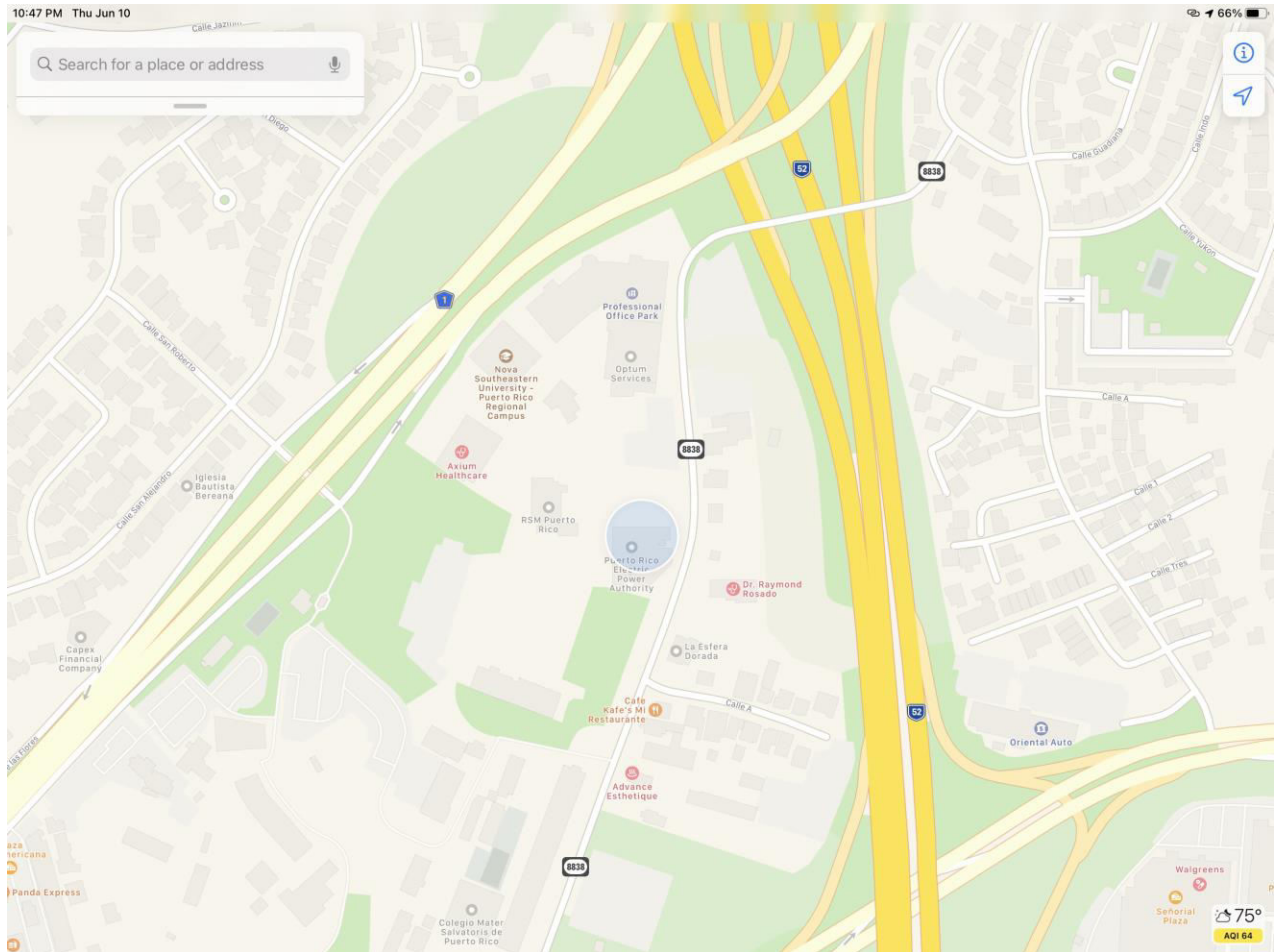
Incident Summary

Name	001-2021 Monacillo Substation Fire
Date	June 10, 2021
Time	18:08
Location	Substation 1346 Monacillo
Description	Transformer 1346.1 suffered a catastrophic failure after a 64 second sustained fault and caught on fire.

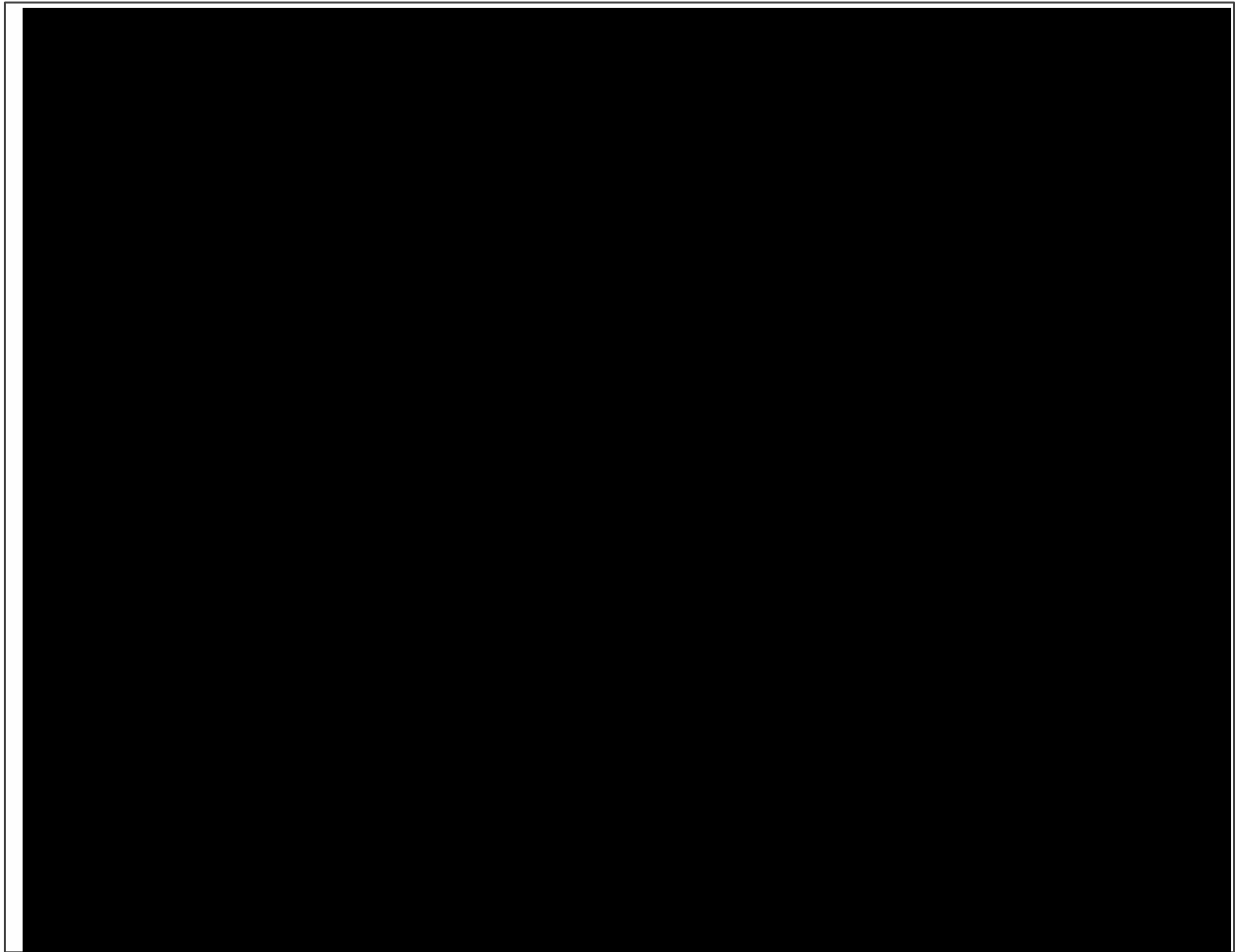
Substation 1346 General Description

Capacity	44 MVA
Primary voltage	115 kV
Secondary voltage	13.2 kV
Feeders	Three directly damaged by event and other three were not damaged.
Substation type	Lattice Structure with Outdoor Breakers

Map



Monacillo Substation Single Line Diagram



Incident Chronology

All times are approximate. Event description and notes subject to verification and may be modified, deleted and/or added to as a result of full investigation.

Date / Time	Event	Notes
06/10/21 18:08	Indication of fault on Monacillo 13.2kV distribution circuit 1346-5.	LUMA personnel in the Monacillo building report arc on circuit 1346-5.
	Multiple explosions observed	At least one at substation and another at light post opposite gate #2
	Monacillo substation 13.2 kV breaker #5 and transformer 1346 have a catastrophic failure which results in a fire	Feeder breaker for circuit 1346-6 operates. This circuit shares the 13.2 kV bus section with circuits 1346-4 and 1346-5. Breaker 5

Date / Time	Event	Notes
	at the substation involving this equipment.	destroyed during the fault including control panel and protective relay. Breaker 4 suffers extensive damage and control cabinet is destroyed. Transformer 1346.1 is destroyed.
	Substation transformer 1346 breaker protection on the 115kV bus fails to clear transformer fault. High side breaker 0060 fails to open.	Since the fault wasn't cleared by the feeder breakers, the next zone of protection is the transformer high side breaker 0060.
	Transformer Bank #2 1115kV / 38kV trips off line.	This trip opened the transformer breakers 0004 & 0002. There's also an operation of the 38kV BUS2 lockout clearing breakers 3510-Lomas, 3410-Guaynabo, 3210-Venezuela & 15510-Centro Medico. Line 3000-Bairoa had a remote-end operation via breaker 3030.
18:09	Transmission line breakers open to clear Transformer 1346.1 fault.	Multiple breakers at 115 kV, several 230 kV-115 kV transformers and 38 kV lines.
	System Wide frequency and voltage disturbances trip generation units.	Mayaguez, Ecoelectrica, San Juan, Palo Seco and AES tripped between 45 and 60 seconds after the initial event.
	Supervisor on duty from private security firm GENESIS, calls 911 to report a fire and subsequently calls Cuartel de Caimito of the Puerto Rico Police Bureau.	
	LUMA personnel temporarily evacuate the "La Torre" building adjacent to the substation.	
	System Operations personnel work to isolate problem and initiate underfrequency load shed in order to protect overall system.	Prior to the event, the load was approximately 2200 MW and after the event, the system stabilizes at 984 MW. Service interrupted in greater San Juan metropolitan area, surrounding communities, and some other areas.
18:10	System Operations reports event to LUMA executives.	Senior managers mobilize.
	LUMA emergency response initiated.	



Date / Time	Event	Notes
18:14	LUMA personnel open gate at substation and observe event.	
18:17 – 18:20	Emergency response arrives on scene. Begins containment of fire and other activities.	Response includes firefighters, police, and EMS. LUMA gives instructions to not use firefighting equipment or move through the substation until the site was made safe. (Emergency response includes personnel that have experience in responding to events at Monacillo site.)
18:28	System Operations works with PREPA generation to begin bringing peaking units back on-line.	In coordination with LUMA, PREPA management have arrived on-site at Control Center to assist in coordination of generation.
18:30	Scene under control. Initial preparation to move mobile substation begins.	
19:00	Initial investigation completed.	Confirms that Transformer 1346.1 completely destroyed, 3 distribution breakers totally damaged, no major oil leak detected, and lattice structures and other apparatus were partially burned (both 115kV and 38kV).
20:00	Portable light towers are dispatched from the Bayamon warehouse and initial switching underway to restore initial customers	
At around 20:00	Estimated between 800,000 – 900,000 customers out of service.	LUMA continues to communicate the number of customers being restored (customer OOS) throughout the night.
20:02	LUMA EOC activated and ICS enacted.	
20:20	Monacillo warehouse begins dispatching materials and supplies on sight.	
20:52	System Operations works with generators to begin synchronizing the base load generation units.	These units have a slower ramp rate and it can take several hours to ramp a plant to its maximum output.
21:00	Completed restauration of feeders impacted by the UFLS	
22:45	Portable substation #19 arrives from Hato Tejas substation in Bayamon to replace damaged transformer.	

Date / Time	Event	Notes
	Substation crews begin work and continue to work through the night.	
06/11/21 00:45	Mobile Station is located in place within the substation	
01:30	All the feeders that can be closed remotely (excepting the Monacillo ones) were closed, 23 feeders (3 in Ponce and 20 in Greater San Juan)	Required a crew to be dispatch to close manually
04:00	Line crews arrive on site to provide switching support	
	Monacillo warehouse reopens	
06:00	Substation crews swapped out for rest. Substation and line crews continue work at Monacillo and surrounding area throughout the day.	
15:30	Breakers 4,5 and 6 serviced from alternate substation.	
18:00	Circuits other than those directly affected by Monacillo substation breakers are restored	Distribution circuit switching on Monacillo distribution circuits to minimize service outages.
06/12/21 15:00	Mobile Substation connected and energized.	
19:30	Distribution load on the mobile substation for feeder #1, #2, #3 (normal customer load).	

Corrective Actions Taken to Stabilize Situation and Restore Service

Immediately after the outage, LUMA personnel established incident priorities to safeguard personal safety, protect property, and to stabilize situation.

LUMA acted in a timely manner to begin restoration efforts, including reenergizing of segments of the grid, reconnection of generation units, and restoration of service to customers in line with System Operation Principles. By 6/11 0130 hours, System Operations re-energized all circuits which could be done remotely. Crews were mobilized soon after the incident and after securing the Monacillo site, began restoration efforts. Crews restored service on 23 feeders between 6/12 01:30 hours and 20:00 hours. In order to restore service to customers on the three feeders originating at the destroyed transformer, the 33 MVA transformer from the mobile substation was installed at Monacillo substation to partially replace on a provisional basis the destroyed transformer. Crews also executed manual switching at distribution level. (This was 7 – 10k customers.) Monacillo substation work continued throughout the evening of 6/10 and until 20:00 hours on 6/11.

Outage

A large number of transmission lines and other system elements were initially de-energized as a result of the incident and as part of the overall protection of the system. These are summarized in the table below. Total system load at 6/10 1800 hours was approximately 2200 MW. At 18:09 hours total system load was 984 MW.

Summary of Breakers Opened

Voltage (kV)	Breaker
115	37500 (Hato Tejas – Monacillos)
	37800 (Caguas – Monacillos)
	36200 (Juncos – Monacillos)
	38300 (San Juan Plant – Monacillos)
	40500 (Hato Rey – Monacillos)
	37900 (Sabana Llana – Monacillos)
	36100 (Bayamon – Monacillos)
	38200 (Palo Seco Plant – Monacillos)
	38800 (Viaducto – Hato Rey)
	37400 (Vega Baja – Dorado)
	36800 (Fajardo – Palmer) 41200 (Canovanas – Sabana Llana)
	36800 (Canovanas – Palmer)
	36800 (Canovanas – Sabana Llana)
230kV-115kV transformers	Sabana Llana
	Bayamon
38 kV	Almost all lines in greater San Juan metro area

Generation Reactivation

As part of the orderly and safe restoration of service, System Operations works with PREPA Generation and IPPs to reinitiate units and bring them on-line as transmission and distribution lines are re-energized and service is restored to customers.

Hourly load is summarized in the table below.

Date	Approximate Time (hours)	Total System Load (MW)
06/10/21	18:00	2200
	18:09	984
	19:00	1088
	20:00	1026
	21:00	1424
	22:00	1594
	23:00	1732
06/11/21	00:00	1897
	01:00	1832
	02:00	1841
	03:00	1756

Please note that by approximately 06/11/21 01:30 hours service was restored to most customers affected by the outage. Load begins to decrease after 06/11/21 00:00 hours due to decrease in overall demand.

The generation reactivation process begins with available peaking units to stabilize the system and progressively add load while maintaining system technical parameters and re-energizing customer progressively. Larger base load units are generally brought on-line after peaking units. The base load units are ramped up slowly and may take hours to reach full output. This process is summarized in the table below.

Generation Units Brought Back On-Line

Date	Approximate Time	Unit	Capacity (MW)
06/10/21	18:28	Mayaguez 4	25
	19:28	Mayaguez 2	25
	19:30	Jobos 1-2	20
	19:43	Jobos 1-1	20
		Aguirre CC 1-2	20
	19:44	Aguirre CC 2-3	50
		Aguirre CC 1-3	50
	20:22	Vieques 1	3

Date	Approximate Time	Unit	Capacity (MW)
		Mayaguez 3	50
	20:28	Palo Seco 2-1	20
		Palo Seco 1-1	20
	20:34	Cambalache 3	77
	20:39	Vieques 2	3
	22:07	Cambalache 2	77
	20:52	AES 1	227
	21:19	ECO CT2	165
	21:50	San Juan 6	160
	22:23	San Juan 5	160
	23:47	SJ Steam 5	60
06/11/21	00:30	ECO CT1	165
	01:41	Palo Seco 4	150
	01:49	ECO Steam	200
	12:13	SJ 9	90

Note: The times are when the unit was synchronized, not at full capacity.

Summary of 115 kV Lines Re-Energized

Date	Approximate Time (hours)	Element
06/10/21	18:16	41200 Canov TC – S Llana
	18:20	XMR 115/38 #1 Canov TC
	18:55	XMR 230/115 Bayamon
	19:07	36800 Fajardo – Palmer
	19:09	36800 Canov TC – Palmer
	19:12	XMR 230/115 #1 Sabana Llana
	19:37	37400 Vega Baja – Dorado
	19:45	XMR 115/38 #2 Canov TC
	19:49	36200 Juncos – Monacillo
	21:01	37800 Caguas – Monacillo
06/11/21	21:39	38800 Viaducto – Hato Rey TC
	00:36	38200 Palo Seco Monacillo
	01:38	38340 San Juan – Monacillo

Summary of Customer Restored

Date	Approximate Time	Estimated Number of Customers without Service
06/10/21	21:00	700,000
	21:48	400,000
	22:31	300,000

Date	Approximate Time	Estimated Number of Customers without Service
	22:56	200,000
06/11/21	00:14	60,000
	01:29	55,000
	01:42	48,000
	15:30	3,500
	20:00	0

Communications

From the beginning of the incident on the evening of 6/10, LUMA communicated directly with government agencies. This continued throughout the evening of 6/10 and throughout 6/11 to update them on the situation, actions being taken and the status of restoration efforts.

Beginning on the early evening of 6/10 at 18:50 hours, LUMA issued multiple press releases, conducted interviews with press and provided social media communications to the public. These communications summarized the situation, efforts taken to stabilize and restore service, including estimated time of restoration. Updates were provided throughout the rest of the evening of 6/10 and during the day on 6/11.

Press conferences were held on the evening of 6/10 and at 08:00 hours on 6/11.

On 6/11, LUMA provided formal written initial report to P3 Authority and the PREB.

Further Actions Being Taken

As part of the security investigation, LUMA is coordinating with the supply of information requested by federal agencies. This includes providing names of personnel with knowledge of the incident, as well as other information obtained by LUMA personnel that may be useful in the course of the investigation. In addition to the FBI, agents from the Bureau of Alcohol, Tobacco Firearms and Explosives (ATF) visited the site to collect evidence and information.

The process of integrating engineering and technical information with other information useful to law enforcement has begun. This process will be led by the FBI and will continue until conclusion of the investigation. LUMA cannot estimate at this time the duration of the investigation.

It is premature to draw conclusions at this time with regards to causes or whether they are due to criminal acts, human error, or mechanical malfunction.

Three working groups were established on 06/11/2021. Each working group will be pursuing specific objectives related to investigating the incident and taking corrective actions.

- Temporary Solution working group – Determine the stability of the current installation with the mobile substation. Determine loading and distribution switching necessary to balance loads.
- Forensics working group – Determine events that occurred and cause(s) of the incident. Working group has partnered with FBI and ATF. Provide recommendations for further protection of substations to avoid similar catastrophic failure.
- Substation Restoration working group – Restore the substation back to normal.

Conclusion

Due to the nature of the event, LUMA cannot at this time provide additional documentation. Since the event, LUMA has focused on safety, restoration of service to customers, restoring system stability, and assuring continuation of service within operating parameters. There has not been sufficient time to process or review all relevant data, and or summarize such information beyond what is being provided in this document to the Energy Bureau. LUMA will provide relevant data along with other information as part of its investigation into the incident. The initial report on the incident is currently estimated to take 4-6 weeks for issuance, but it is not possible to give a definitive timeline at this time. We will continue to communicate with PREB and other governmental agencies with regards to progress on the investigation.