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7 *Attorney for Guam Power Authority*

9 **BEFORE THE GUAM PUBLIC UTILITIES COMMISSION**

10 **IN THE MATTER OF:**

GPA DOCKET NO. 13-13

12 **THE RELIABILITY OF GUAM POWER**
13 **AUTHORITY'S POWER SYSTEM**

GUAM POWER AUTHORITY'S FILING
OF ITS MONTHLY RELIABILITY
REPORT FOR MAY 2024

18 **COMES NOW**, the GUAM POWER AUTHORITY (GPA), by and through its Counsel
19 of Record, MARIANNE WOLOSCHUK, and hereby files its monthly reliability report as of
20 May 31, 2024.

22 Respectfully submitted this 12th day of June, 2024.

24 *Attorney for Guam Power Authority*

25 *M. Wołoschuk*
26 By: _____
27 Marianne Wołoschuk
28 GPA Legal Counsel



GUAM POWER AUTHORITY

ATURIDÁT ILEKTRESEDÁT GUAHAN
P.O.BOX 2977 • AGANA, GUAM U.S.A. 96932-2977

June 11, 2024

MEMORANDUM

To: General Manager
Via: AGMETS *JMB*
From: Engineering Manager (A)
Subject: **PUC Filing of Monthly Reliability Report
As Ordered in Docket 13-13**

The attached table provides a summary of the quarterly reporting requirements established by the PUC through GPA Docket 13-13 regarding the reliability of the GPA Power System. The attached report contains data as of May 31, 2024.

Please let me know if you have any questions.

Manuel M. Minas
Manuel M. Minas

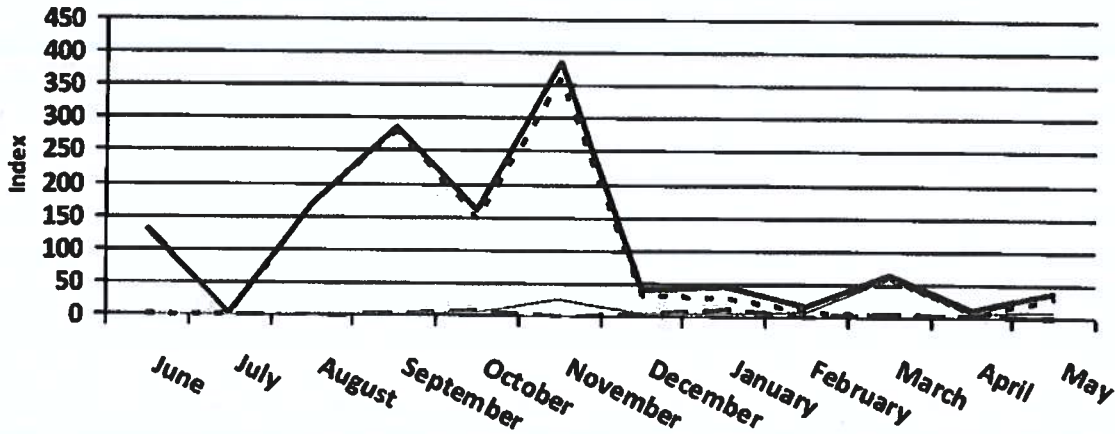
cc: AGMO
T&D Manager
Generation Manager
PSCC Manager
Public Information Officer
Staff Attorney

Guam Power Authority PUC Docket 13-13

Item	Reporting Requirement	GPA Response
Monthly Reporting		
1.1	One year number of outage occurrences, SAIDI, SAIFI, CAIDI and ASAI for the reporting month as well as the previous month	Attachment 1: SAIDI and SAIFI Attachment 2: CAIDI and ASAI
1.2	Breakdown among generation, transmission and distribution	Attachment 1: SAIDI and SAIFI Attachment 2: CAIDI and ASAI
1.3	Number of occurrences, SAIDI, SAIFI, and CAIDI that resulted in under frequency load shedding	Attachment 2: UFLS Contribution to Reliability and the number of occurrences as a result of under frequency load shedding
1.4	Information linking the outages to distribution circuits to track potential problem circuits	Attachment 2: Top 5 Worst Feeders Distribution Causes
1.5	Graphs depicting the monthly cumulative SAIDI, SAIFI, CAIDI and ASAI	Attachment 1: SAIDI and SAIFI Attachment 2: CAIDI and ASAI
1.6	Reporting of all generator related offline trip events, their causes and duration (whether or not customers were affected)	Attachment 3: Generation Report
1.7	Unit specific outage related to EAF and EFOR consistent with GADS reporting	Attachment 4,5,6, and 7: EAF Baseloads and Peaking, EFOR Baseloads and Peaking
1.8	Graphic representation of historic EAF and EFOR for multiple years	Attachment 4,5,6, and 7: EAF Baseloads and Peaking, EFOR Baseloads and Peaking
1.9	The total yearly outage cause breakdown by frequency and duration	Attachment 1: 12 Month Outages by Duration and Frequency

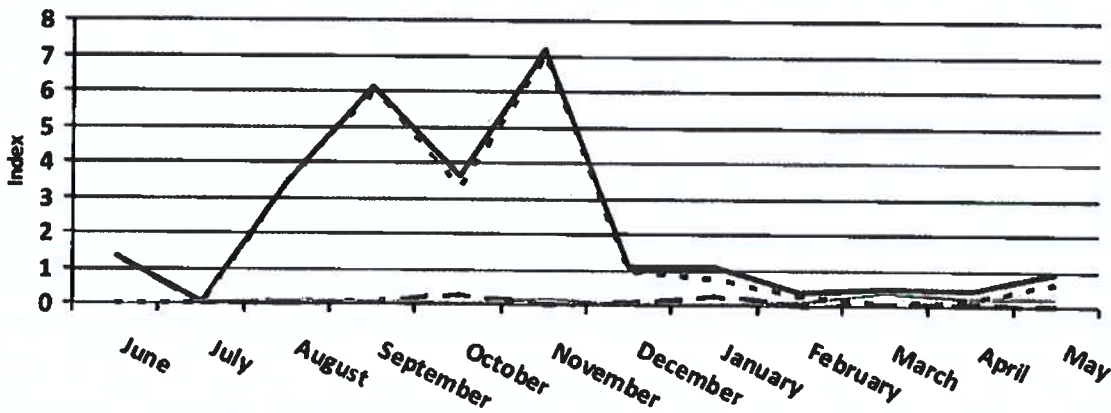


(Item 1.1,1.2,1.5) May 2024 SAIDI = 1,355.69 ↑ (1,339.92)



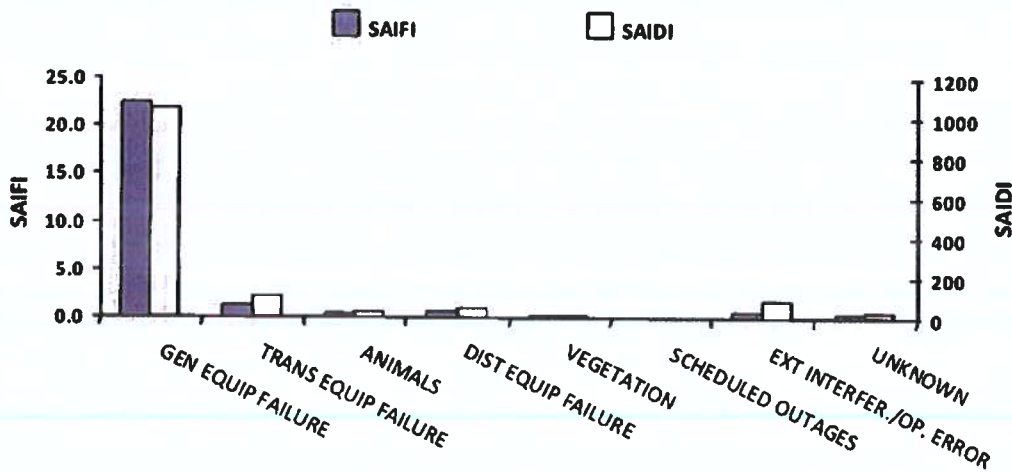
ALL
 GEN=1,051.20 ↑
 (1,031.12)
 TRANS=166.02 ↓
 (168.13)
 DIST=138.47 ↓
 (140.67)

(Item 1.1,1.2,1.5) May 2024 SAIFI = 26.14 ↑ (25.67)



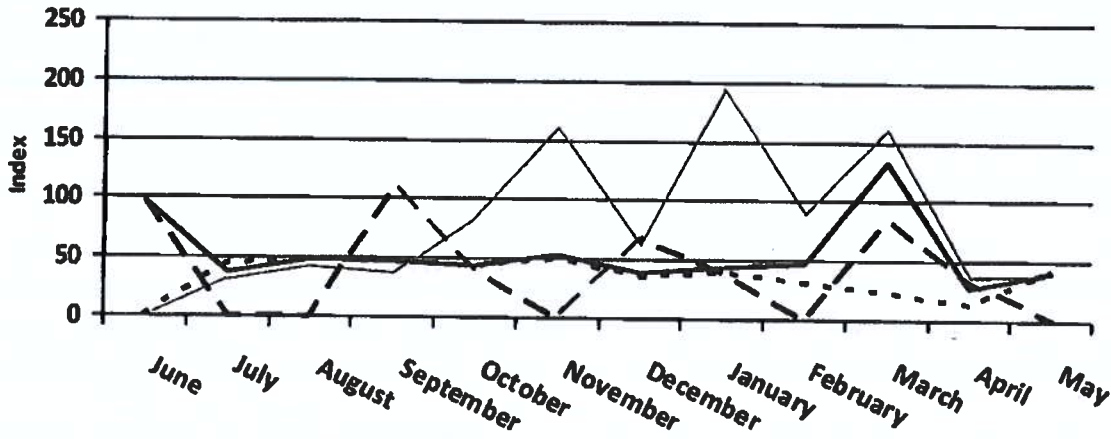
ALL
 GEN=22.58 ↑
 (22.15)
 TRANS=2.07 ↓
 (2.15)
 DIST=1.50 ↑
 (1.37)

(Item 1.9) 12-Month Cause Contributions to Reliability



GEN EQUIP FAILURE
 F:83.5% D:77.5%
 TRANS EQUIP FAILURE
 F:5.0% D:8.0%
 ANIMALS
 F:2.4% D:2.0%
 DIST EQUIP FAILURE
 F:3.2% D:3.4%
 VEGETATION
 F:0.7% D:0.5%
 SCHEDULED OUTAGES
 F:0.9% D:0.3%
 EXT INTERFER./OP.
 ERROR
 F:2.2% D:6.0%
 UNKNOWN
 F:2.2% D:2.3%

(Item 1.1,1.2,1.5) May 2024 CAIDI = 51.86 ↓ (52.19)



ALL

GEN=46.56

(46.55) ↑

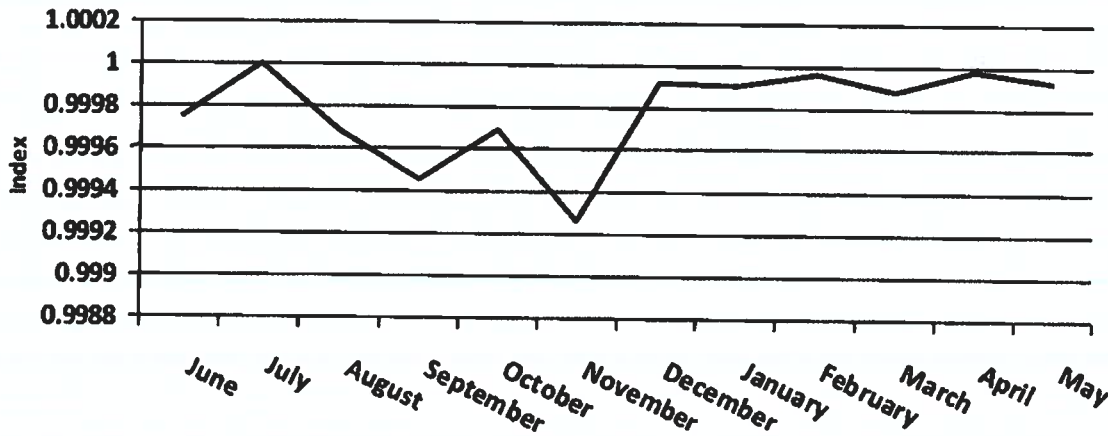
TRANS=80.33

(78.16) ↑

DIST=92.42

(102.34) ↓

(Item 1.1,1.2,1.5) May 2024 ASAI = 0.9974 ↓ (0.9975)



(Item 1.4) Top 5 Worst Feeders Distribution Causes

(Item 1.4) Top 5 Distribution Outage Causes

#	Feeder	Outage Count
1	P340	6
2	P283	6
3	P005	5
4	P262	5
5	P310	5

#	Outage Cause	Count
1	Overhead Equipment	39
2	Snakes	18
3	Substation Equipment	11
4	Vehicles	7
5	Vegetation	7

(Item 1.3) Outage Count

(Item 1.3) UFLS Contribution to Reliability

TOTAL	UFLS	Non-UFLS
2227	121	2106

SAIDI	SAIFI	CAIDI
7.64	0.43	17.81

Item 1.6 Generation Outages

Trip Dates from Wednesday, 06/01/2024 0:00 to Friday, 06/31/2024 23:59

Facility	Trip		Close		Outage Duration (hrs)	Situation	Root Cause
	Date	Time	Date	Time			
Yigo CT	5/31/2024	18:51	6/3/2024	19:24	72.55	Forced	Equipment
Agana ESS	5/30/2024	9:36	5/30/2024	13:03	3.45	Scheduled	Preventive Maintenance
Tenjo 2	5/30/2024	7:32	5/30/2024	16:41	9.15	Forced	Equipment
Piti 8	5/29/2024	17:54	5/29/2024	19:15	1.35	Unexpected	Equipment
Yigo CT	5/29/2024	17:54	5/29/2024	20:57	3.05	Unexpected	Equipment
Agana ESS	5/29/2024	9:04	5/29/2024	12:27	3.38	Scheduled	Preventive Maintenance
Piti 9	5/29/2024	8:36	5/29/2024	12:50	4.23	Scheduled	Testing
Pulantat 2	5/28/2024	19:28	5/29/2024	13:38	18.17	Unexpected	Equipment
Tenjo 2	5/28/2024	17:54	5/29/2024	10:46	16.87	Forced	Equipment
Cabras 1	5/27/2024	22:26	5/31/2024	5:19	78.88	Forced	Equipment
Piti 9	5/27/2024	5:35	5/28/2024	12:29	30.90	Forced	Equipment
Piti 8	5/26/2024	8:29	5/26/2024	14:27	5.97	Forced	Weather or Environment
Agana ESS	5/24/2024	9:01	5/24/2024	14:47	5.77	Scheduled	Preventive Maintenance
Tenjo 4	5/24/2024	0:02	5/24/2024	9:24	9.37	Forced	Equipment
Tenjo 4	5/24/2024	0:00	5/25/2024	21:55	45.92	Unexpected	Equipment
Pulantat 2	5/23/2024	18:24	5/23/2024	18:38	0.23	Unexpected	Equipment
Agana ESS	5/22/2024	9:20	5/22/2024	15:54	6.57	Scheduled	Preventive Maintenance
Pulantat 2	5/21/2024	16:51			0.00	Forced	Equipment
Talofofu 2	5/21/2024	16:25	5/24/2024	12:47	68.37	Forced	Equipment
Piti 9	5/20/2024	8:38			0.00	Unexpected	Equipment
Cabras 2	5/20/2024	0:00	5/25/2024	9:13	129.22	Scheduled	Preventive Maintenance
Piti 8	5/19/2024	9:20	5/19/2024	13:15	3.92	Scheduled	Overgeneration
Piti 8	5/17/2024	10:04	5/17/2024	12:51	2.78	Scheduled	Overgeneration
Piti 9	5/16/2024	8:59	5/16/2024	14:45	5.77	Forced	Equipment
Dededo CT2	5/16/2024	0:01	5/16/2024	16:21	16.33	Scheduled	Preventive Maintenance
Tenjo 3	5/14/2024	17:30	5/15/2024	10:01	16.52	Unexpected	Equipment
Piti 9	5/14/2024	8:17	5/14/2024	14:01	5.73	Forced	Equipment
Piti 8	5/12/2024	9:59	5/12/2024	14:35	4.60	Scheduled	Overgeneration
Piti 8	5/10/2024	9:41	5/10/2024	13:32	3.85	Forced	Equipment
Piti 7 CT	5/10/2024	2:10	5/10/2024	3:10	1.00	Unexpected	Unknown
Piti 8	5/9/2024	8:33	5/9/2024	9:44	1.18	Forced	Equipment
Talofofu 2	5/9/2024	6:00	5/9/2024	11:46	5.77	Scheduled	Testing
Macheche CT	5/9/2024	1:00	5/9/2024	14:00	13.00	Scheduled	Preventive Maintenance
Piti 8	5/8/2024	10:59	5/8/2024	13:35	2.60	Scheduled	Overgeneration
Piti 9	5/7/2024	9:40	5/7/2024	13:46	4.10	Scheduled	Overgeneration
Piti 9	5/6/2024	21:03	5/6/2024	21:30	0.45	Forced	Equipment
Tenjo 3	5/6/2024	8:27	5/6/2024	12:56	4.48	Unexpected	Equipment
Piti 9	5/6/2024	7:42	5/6/2024	13:01	5.32	Scheduled	Repair

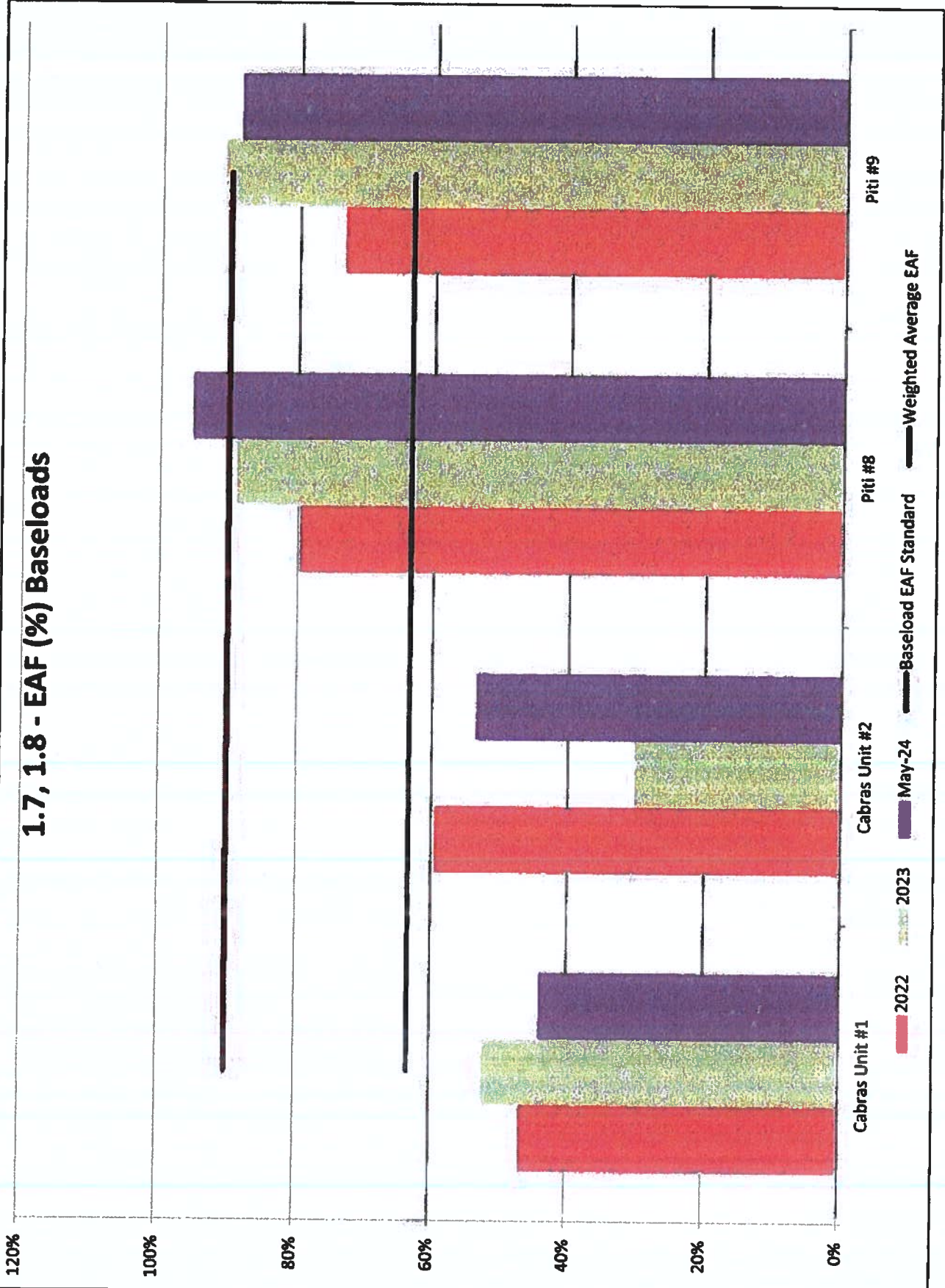
ATTACHMENT #3

Item 1.6 Generation Outages

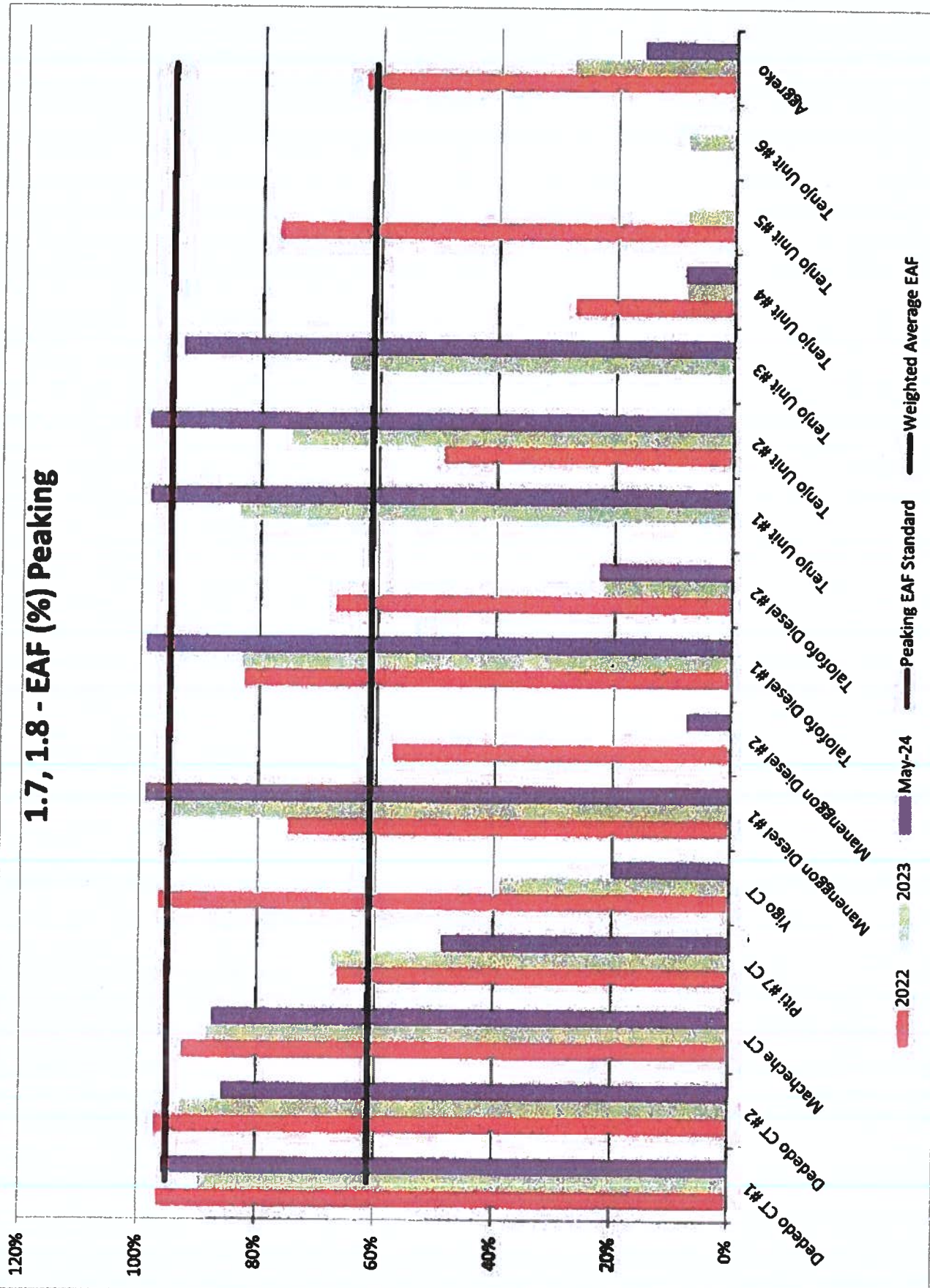
Trip Dates from Wednesday, 06/01/2024 0:00 to Friday, 06/31/2024 23:59

Facility	Trip		Close		Outage Duration (hrs)	Situation	Root Cause
	Date	Time	Date	Time			
Dededo CT2	5/6/2024	7:13	5/6/2024	17:02	9.82	Scheduled	Repair
Piti 9	5/3/2024	8:59	5/3/2024	12:14	3.25	Scheduled	Testing
Piti 9	5/2/2024	9:04	5/2/2024	11:03	1.98	Scheduled	Testing
Aggreko	5/1/2024	7:35	5/1/2024	14:30	6.92	Scheduled	Public/Customer Accommodation

1.7, 1.8 - EAF (%) Baseloads



1.7, 1.8 - EAF (%) Peaking



1.7, 1.8 - EFOR (%) Baseloads

