

1 **MARIANNE WOLOSCHUK**  
2 Legal Counsel  
3 Guam Power Authority  
4 Gloria B. Nelson Public Building  
5 688 Route 15  
6 Mangilao, Guam 96913  
7 Telephone: (671) 648-3203  
8 Fax No. (671) 648-3290  
9 Email: [mwołoschuk@gpagwa.com](mailto:mwołoschuk@gpagwa.com)



10 *Attorney for Guam Power Authority*

11 **BEFORE THE GUAM PUBLIC UTILITIES COMMISSION**

12 **IN THE MATTER OF:**

**GPA DOCKET NO. 13-13**


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

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

15  
16  
17  
18  
19 The GUAM POWER AUTHORITY (GPA), by and through its Counsel of Record,  
20 MARIANNE WOLOSCHUK, hereby files its monthly reliability report as of July 31, 2024.

21  
22 Respectfully submitted this 16th day of August, 2024.

23 *Attorney for Guam Power Authority*

24  
25 By:   
26 \_\_\_\_\_  
27 Marianne Woloschuk  
28 GPA Legal Counsel

ORIGINAL



# GUAM POWER AUTHORITY

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

August 14, 2024

## MEMORANDUM

To: General Manager  
Via: AGMETS *gms*  
From: Engineering Manager  
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 July 31, 2024.

Please let me know if you have any questions.

Vincent J. Sablan, P.E.

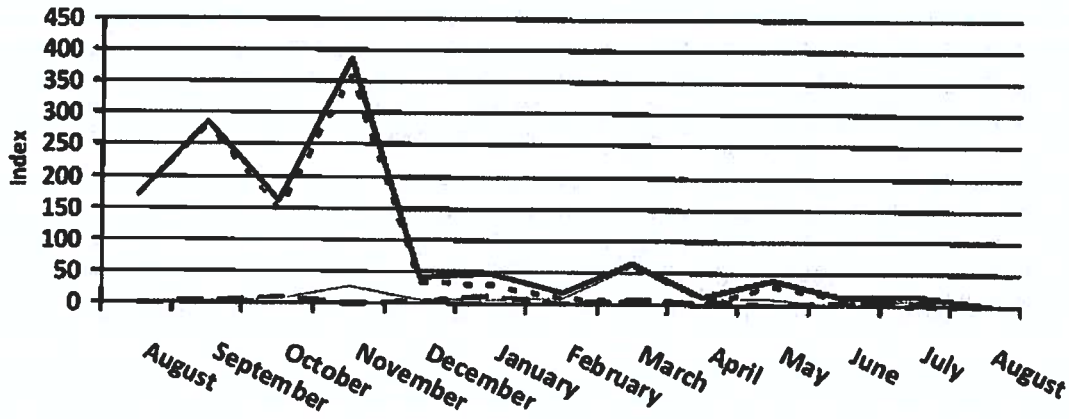
cc: AGMO  
T&D Manager  
Generation Manager  
PSCC Manager  
Public Information Officer  
Staff Attorney

## Guam Power Authority PUC Docket 13-13

Item	Reporting Requirement	GPA Response
<b>Monthly Reporting</b>		
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 or 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

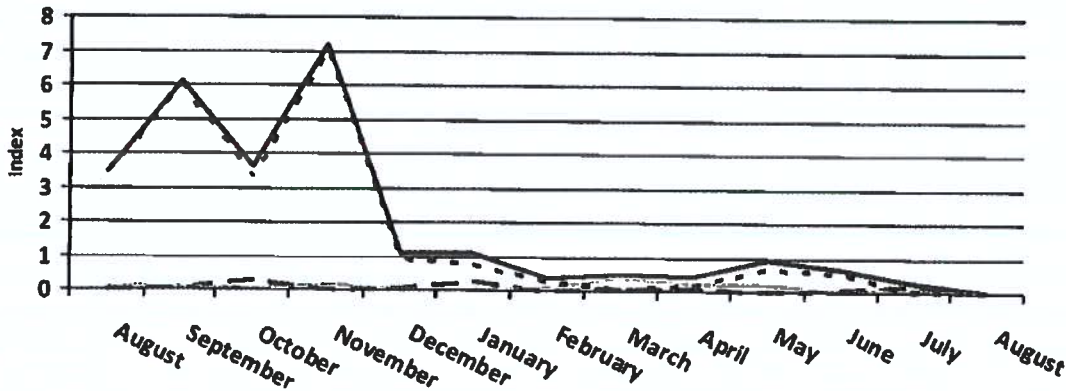


(Item 1.1,1.2,1.5) July 2024 SAIDI = 1,249.39 ↑ (1,236.34)



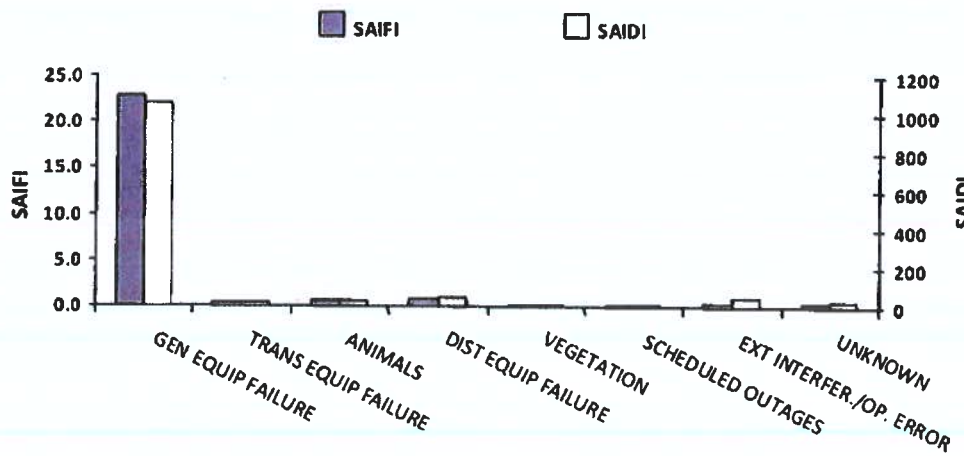
ALL  
 GEN=1,059.62  
 ..... ↓  
 (1,060.73)  
 TRANS=43.47  
 - - - - ↑  
 (36.26)  
 DIST=146.30  
 \_\_\_\_\_ ↑  
 (139.35)

(Item 1.1,1.2,1.5) July 2024 SAIFI = 25.68 ↑ (25.44)



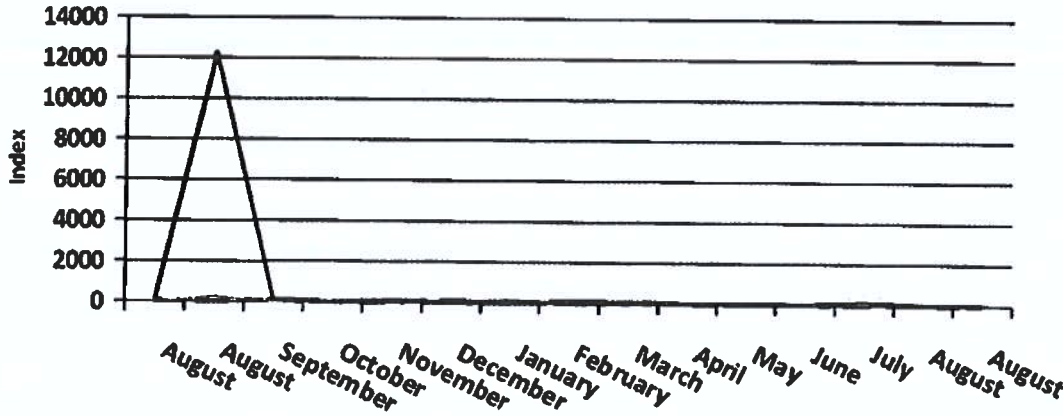
ALL  
 GEN=23.08  
 ..... ↓  
 (23.10)  
 TRANS=0.96  
 - - - - ↑  
 (0.78)  
 DIST=1.63  
 \_\_\_\_\_ ↑  
 (1.55)

(Item 1.9) 12-Month Cause Contributions to Reliability



GEN EQUIP FAILURE  
 F:85.5% D:84.6%  
 TRANS EQUIP FAILURE  
 F:1.9% D:1.2%  
 ANIMALS  
 F:2.7% D:2.3%  
 DIST EQUIP FAILURE  
 F:3.6% D:4.0%  
 VEGETATION  
 F:0.7% D:0.6%  
 SCHEDULED OUTAGES  
 F:1.3% D:1.0%  
 EXT INTERFER./OP. ERROR  
 F:1.9% D:3.8%  
 UNKNOWN  
 F:2.3% D:2.5%

(Item 1.1,1.2,1.5) July 2024 CAIDI = 48.66 ↑ (48.61)



ALL

GEN=45.91

(45.91) ↑

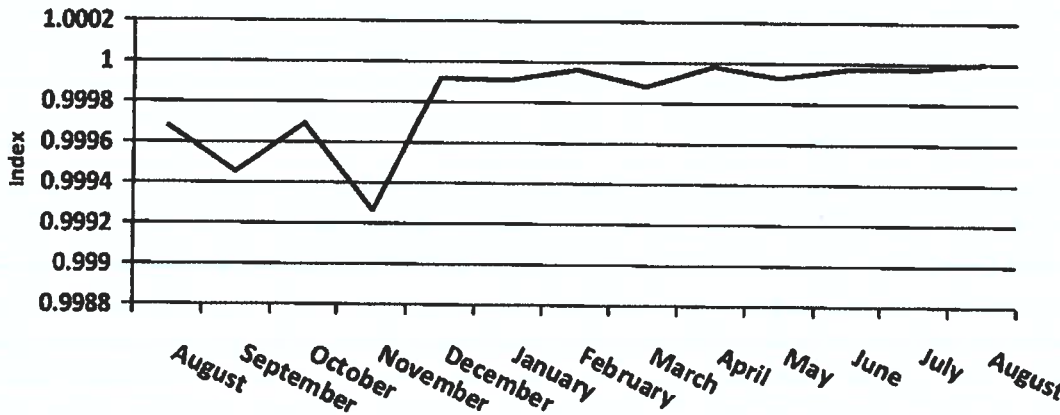
TRANS=45.12

(46.46) ↓

DIST=89.51

(89.81) ↓

(Item 1.1,1.2,1.5) July 2024 ASAI = 0.9976 **UNC\*** (0.9976)



(Item 1.4) Top 5 Worst Feeders Distribution Causes

#	Feeder	Outage Count
1	P340	7
2	P005	6
3	P290	4
4	P323	4
5	P320	4

(Item 1.4) Top 5 Distribution Outage Causes

#	Outage Cause	Count
1	Overhead Equipment	39
2	Snakes	18
3	Substation Equipment	8
4	Underground Equipment	7
5	Other Animals	7

(Item 1.3) Outage Count

TOTAL	UFLS	Non-UFLS
1627	89	1538

(Item 1.3) UFLS Contribution to Reliability

SAIDI	SAIFI	CAIDI
10.15	0.60	16.84

Item 1.6 Generation Outages

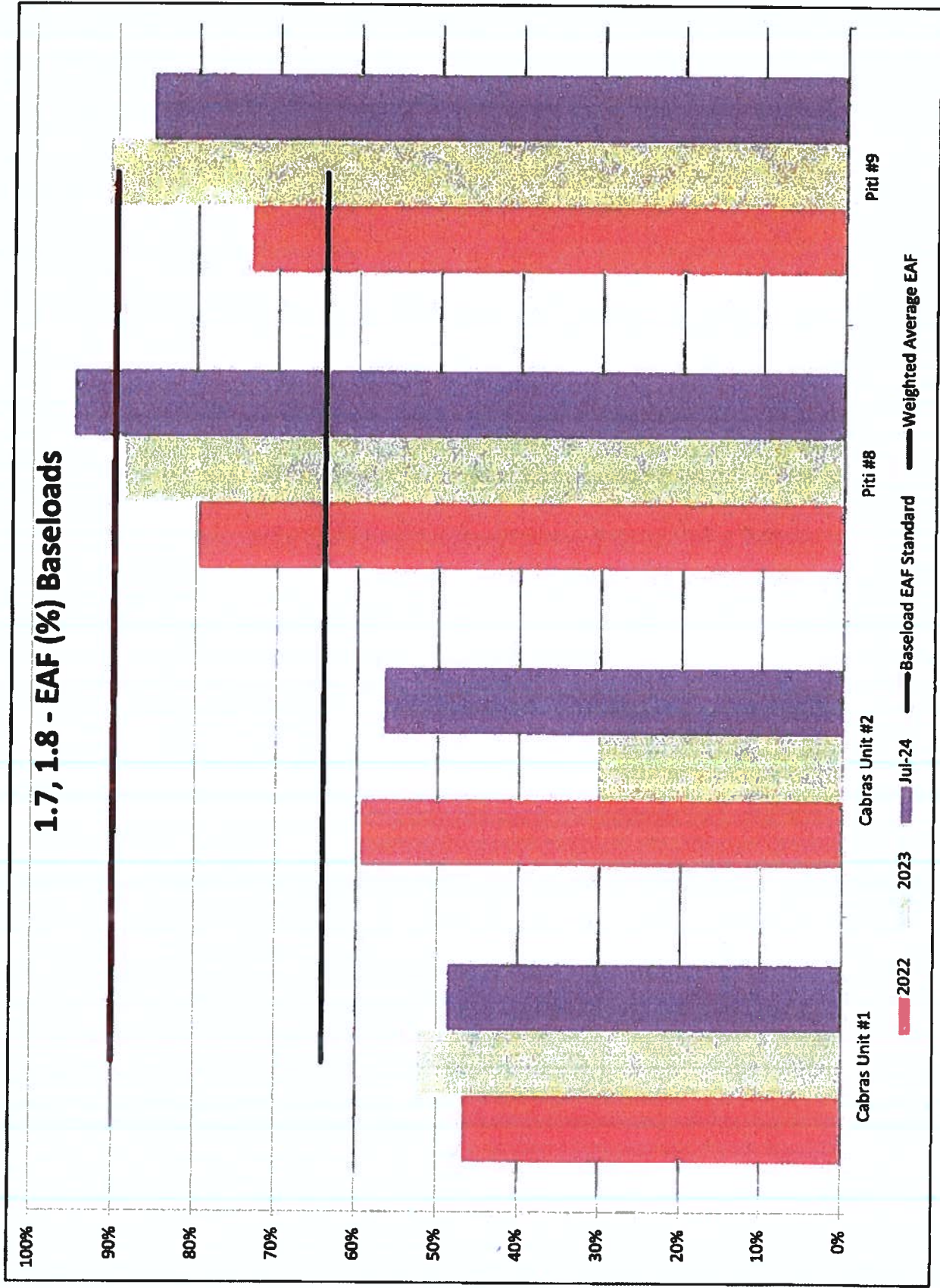
Trip Dates from Monday, 07/01/2024 0:00 to Wednesday, 07/31/2024 23:59

Facility	Trip		Close		Outage Duration (hr)	Situation	Root Cause
	Date	Time	Date	Time			
Dededo CT 1	7/31/2024	9:22	7/31/2024	10:29	1.12	Unexpected	Equipment
Piti 9	7/31/2024	0:26	7/31/2024	17:46	17.33	Scheduled	Repair
Yigo Diesels	7/30/2024	19:28	8/2/2024	20:25	72.95	Unexpected	Equipment
Piti 8	7/30/2024	9:25	7/30/2024	14:10	4.75	Scheduled	Overgeneration
Tenjo 2	7/29/2024	20:18	7/30/2024	18:41	22.38	Unexpected	Equipment
Tenjo 3	7/29/2024	16:38	7/30/2024	18:25	25.78	Forced	Equipment
Yigo Diesels	7/29/2024	16:01	7/29/2024	20:20	4.32	Unexpected	Equipment
Piti 9	7/29/2024	8:23	7/29/2024	13:33	5.17	Forced	Equipment
Piti 8	7/28/2024	9:14	7/28/2024	14:15	5.02	Scheduled	Overgeneration
Piti 9	7/27/2024	11:24	7/27/2024	14:15	2.85	Scheduled	Overgeneration
Piti 8	7/27/2024	8:43	7/27/2024	13:08	4.42	Scheduled	Overgeneration
Dededo CT 2	7/27/2024	7:59	7/27/2024	17:20	9.35	Scheduled	Preventive Maintenance
Piti 9	7/26/2024	12:44	7/26/2024	15:14	2.50	Forced	Equipment
Piti 9	7/26/2024	10:15	7/26/2024	12:44	2.48	Scheduled	Overgeneration
Piti 8	7/24/2024	9:31	7/24/2024	14:46	5.25	Scheduled	Overgeneration
Yigo Diesels	7/24/2024	8:59	7/24/2024	9:56	0.95	Forced	Equipment
Macheche CT	7/23/2024	15:10	7/23/2024	18:02	2.87	Unexpected	Unknown
Yigo CT	7/23/2024	6:37	8/1/2024	13:14	222.62	Scheduled	Repair
Cabras 2	7/22/2024	12:48	7/22/2024	16:01	3.22	Unexpected	Equipment
Piti 9	7/22/2024	12:20	7/22/2024	13:41	1.35	Unexpected	Equipment
Piti 9	7/22/2024	11:08	7/22/2024	12:01	0.88	Unexpected	Equipment
Cabras 1	7/22/2024	8:45	7/23/2024	3:42	18.95	Scheduled	Normal Operations
Macheche CT	7/21/2024	17:13	7/21/2024	19:24	2.18	Unexpected	Equipment
Macheche CT	7/20/2024	16:29	7/20/2024	17:17	0.80	Unexpected	Equipment
Talofofo 1	7/19/2024	20:32	7/21/2024	1:50	29.30	Forced	Equipment
Piti 8	7/18/2024	12:41	7/19/2024	18:55	30.23	Unexpected	Equipment
Agana ESS	7/18/2024	9:44	7/18/2024	11:05	1.35	Unexpected	Equipment
Puiantat 2	7/17/2024	21:56	7/17/2024	23:02	1.10	Unexpected	Equipment
Piti 9	7/17/2024	10:21	7/17/2024	15:33	5.20	Scheduled	Repair
Dededo CT 2	7/17/2024	6:44	7/21/2024	20:26	109.70	Scheduled	Repair
Talofofo 2	7/16/2024	17:59	7/16/2024	19:57	1.97	Forced	Equipment
Yigo CT	7/15/2024	13:27	7/15/2024	14:30	1.05	Unexpected	Unknown
Piti 8	7/15/2024	12:11	7/17/2024	1:25	37.23	Forced	Equipment
Piti 9	7/15/2024	9:31	7/15/2024	11:19	1.80	Scheduled	Testing
Tenjo 2	7/14/2024	17:30	7/15/2024	9:42	16.20	Forced	Equipment
Macheche CT	7/14/2024	13:37	7/14/2024	16:28	2.85	Unexpected	Unknown
Piti 9	7/13/2024	8:19	7/14/2024	18:08	33.82	Scheduled	Repair
Talofofo ESS	7/11/2024	9:34	7/11/2024	14:50	5.27	Scheduled	Preventive Maintenance
Dededo CT 2	7/11/2024	7:42	7/11/2024	10:08	2.43	Forced	Equipment
Piti 8	7/9/2024	9:49	7/9/2024	14:43	4.90	Scheduled	Overgeneration
Piti 8	7/8/2024	9:36	7/8/2024	14:05	4.48	Forced	Equipment
Piti 9	7/6/2024	11:06	7/6/2024	13:54	2.80	Forced	Equipment
Yigo Diesels	7/5/2024	18:42	7/5/2024	20:05	1.38	Unexpected	Unknown

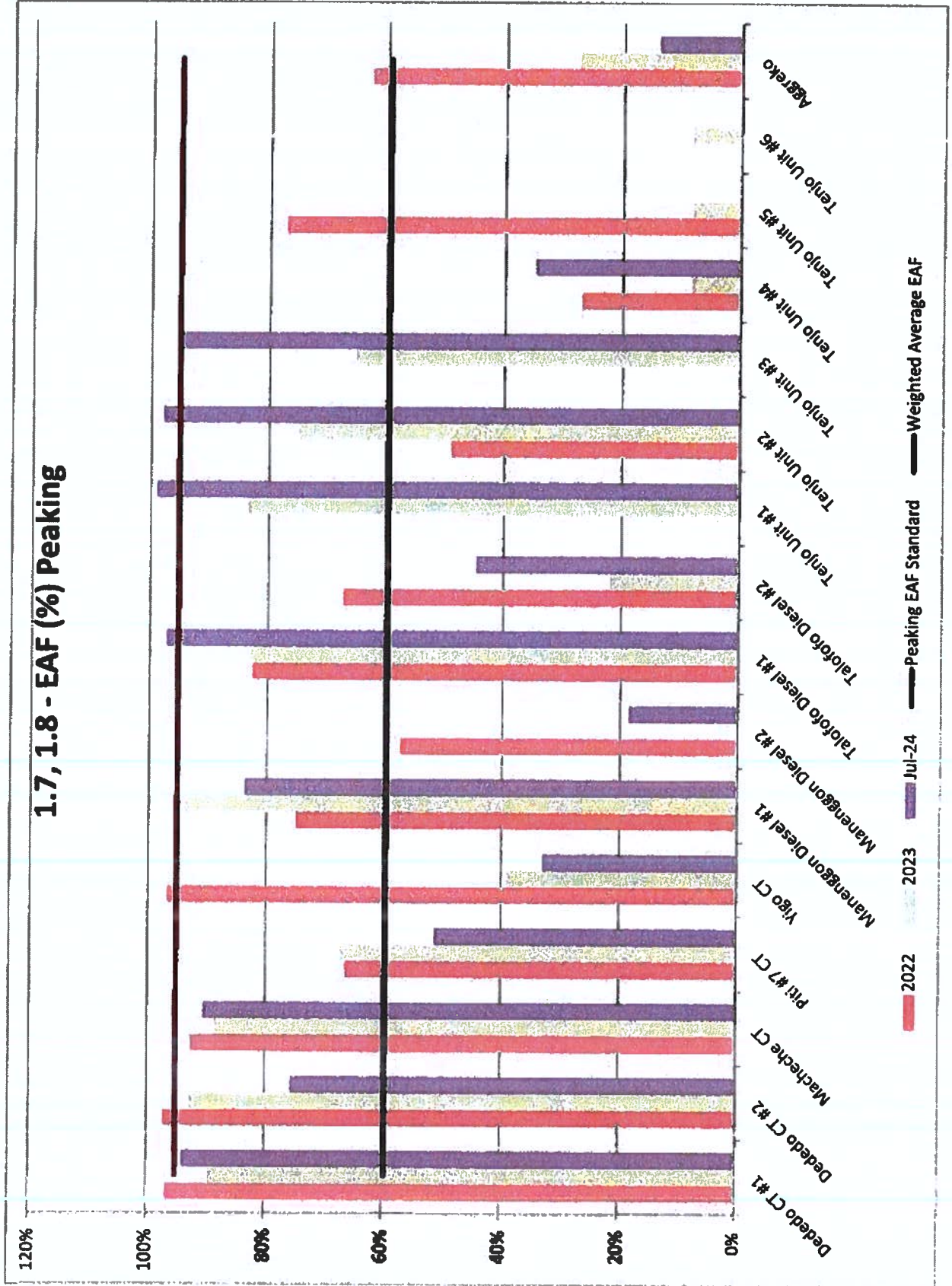
**Item 1.6 Generation Outages**

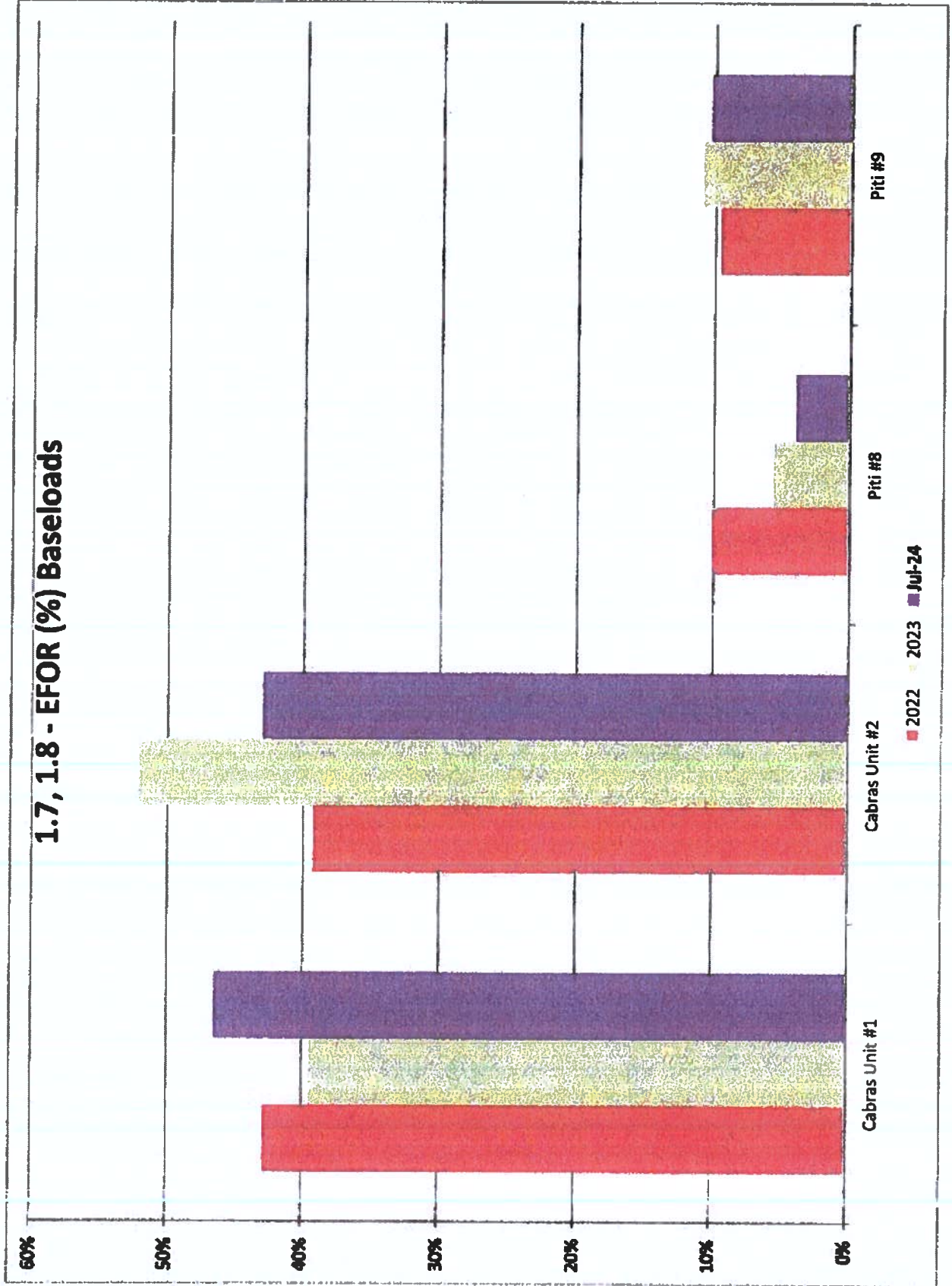
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Facility	Trip		Close		Outage Duration (hr)	Situation	Root Cause
	Date	Time	Date	Time			
Piti 9	7/5/2024	8:53	7/5/2024	14:38	5.75	Unexpected	Equipment
Piti 9	7/4/2024	6:21	7/4/2024	12:35	6.23	Scheduled	Testing
Talofofo Ess	7/3/2024	9:22	7/3/2024	12:01	2.65	Scheduled	Testing
Piti 9	7/3/2024	8:55	7/3/2024	11:26	2.52	Scheduled	Testing
Piti 9	7/2/2024	4:44	7/2/2024	18:35	13.85	Scheduled	Repair









### 1.7, 1.8 - EFOR (%) Peaking

