

*Water*

TO: G. W. Kelley                                 JOB: 942  
FROM: C. F. Dunlap                                RE: Status of Steam Boilers

DATE: 20 August 1955

**BEST COPY AVAILABLE**

Attached please find a tabulation reflecting the status of steam boilers at all sites for Hikini and Eniwetok atolls. This tabulation has been worked up in conjunction with Mr. George Taylor, Superintendent, and therefore, incorporates the advice and current thinking of the Mechanical Department regarding our present and future needs for steam generation. Please note that following the arrival of our next cargo ship, approximately 26 August, we will have on hand as spares two 20 H.P. Steam-Master boilers after having supplied one each for the mess halls at sites Tare and Gens.

In addition, it is our recommendation that the following steam generators be ordered as spares in the event of failure of any of the units now in service:

**2 - 60 H.P. Amesteam boilers.**

One of these is recommended for the possible replacement of the 50 H.P. boiler in the mess hall at Hikini. This boiler is in poor condition and is loaded beyond its rated capacity. The second 60 H.P. Amesteam boiler is recommended as a possible replacement for one of the two 50 H.P. boilers at the Fred Distillation Plant. These boilers were purchased in 1950 and are in only fair condition; however, there is a strong possibility that the demand on these boilers will, during the future operation, exceed 50 H.P. each.

**1 - 50 H.P. Amesteam boiler.**

This boiler is recommended as a possible replacement for one of the four 50 H.P. laundry boilers at Site Fred. These boilers were purchased in 1950 and are in fair condition.

If these three additional spare boilers are purchased, they together with the two 20 H.P. spare boilers already on order will provide the minimum reasonable backup for the steam generating units now in service.

In view of the above factors it is our recommendation that two 60 H.P. and one 50 H.P. Amesteam boilers be purchased as soon as possible. I understand from Mr. Taylor that considerable boiler trim, tools and repair materials are necessary; however, Mr. Taylor will requisition these supplies through his normal channels.

*C. F. Dunlap*  
C. F. Dunlap  
Resident Engineer

CFD:jm  
Encs.: Tabulation (2 copies)

cc.: M. R. Born      E. Joffcoat      OS Chrono      OS Engr.  
      G. Taylor      W. U. Rohrer    OS Central

FOLDER Water 1954-1955

REPOSITORY: Nevada. Operations office

COLLECTION 326 67 A 1016

BOX No. 75 of 23319



STATUS OF STEAM BOILERS

DATE: 20 August 1955

Site	Boilers Required	Boilers Installed	Condition	Remarks	Boilers		Additional Spares Recommended to be ordered
					Spares On Hand	On Order	
Elmer	1 - 50 H.P. (Mess Hall)	1 - Steam-Master - 50 H.P.	Purch. Dec. '53 (Fair)	Overloaded			1 - 60 H.P. Amesteam
	1 - 50 H.P. (Laundry)	1 - Steam-Master - 50 H.P.	Purch. Dec. '53 (Poor)	Overloaded			
	1 - 20 H.P. (Distillation)	1 - Amesteam - 20 H.P.	Purch. Mar. '52 (Good)	Ample size			
	1 - 30 H.P. (Distillation)	1 - Amesteam - 30 H.P.	Purch. Mar. '52 (Good)	Ample size			
Fred	4 - 50 H.P. (Laundry)	4 - Amesteam - 50 H.P.	Purch. 1950 (Fair)	Ample			1 - 50 H.P. Amesteam 1 - 60 H.P. Amesteam
	2 - 50 H.P. (Distillation & P.H.)	2 - Amesteam - 50 H.P.	Purch. 1950 (Fair)	Ample			
	1 - 20 H.P. (Parachute Loft)	1 - Steam-Master - 20 H.P.	Installed Feb. '54 (Fair)	Ample (Used boiler prior to installation)			
Nan	1 - 20 H.P. (Mess Hall)	1 - Steam-Master - 20 H.P.	Good	Ample			
Fox	1 - 20 H.P. (Mess Hall)	1 - Amesteam - 20 H.P.	Good	Ample			
Tare	1 - 20 H.P. (Mess Hall)			Ample		1 - 20 H.P.	
Yvonne	1 - 20 H.P. (Mess Hall)	1 - Steam-Master - 20 H.P.	Good	Ample			
	1 - 5 H.P. (Distillation)	1 - ? (AEC-CA-1025) - 5 H.P.	Good	Ample			
Ursula	1 - 20 H.P. (Mess Hall)	1 - Amesteam - 20 H.P.	Good	Ample			
Gene	1 - 20 H.P. (Mess Hall)			Ample		1 - 20 H.P.	
David							
					Spare -	2 - 20 H.P.	
					Total	4 - 20 H.P. Steam-Master	2 - 60 H.P. 1 - 50 H.P.

\*ETA 8/26/55