## **BOILER TUBE FAILURE REPORT (C-2 FORM)**

(C-2 FORM SHOULD BE SENT WITHIN 24 HOURS OF SYNCHRONISATION)

1) STATION:	NTPL	2) UNIT No.		II	3) LAST UNIT OUTAGE		: [	Jan-23 4) LAST UNIT		ГО/Н	Nov-21	
5) UNIT SHUTDOWN FROM		22	01	23		08	22	9	) OUTAGE HOURS	[		
6) WATER FILLING CLEARANCE		23	01	23		11	50		(ONLY DUE TO BTI	r)	hh	mm
7) CLEARANCE FOR LIGHTUP								1	O) GENERATION LO	ss [		
(AFTER REPAIR OF BTF)		dd	mm	уу		hh	mm		(ONLY DUE TO BTF)		MUS	
B) UNIT SYNCHRONISED AT												
11) BTF INSPEC	TED BY	dd	mm	уу		hh	mm					
BTF COMMITTEE HEAD					MTP					FQA		
CHEMISTRY						OPERATION					O&C	

#### **BOILER TUBE FAILURE LOCATION**

12) FAILED TUBE LOCATION MARKED ON UNIT MATERIAL DIAGRAM AND BOILER GENERAL ARRANGEMENT DRAWING (CLEARLY IDENTIFYING TUBE NO., COIL NO., TUBE DIMENSION, TUBE MATERIAL AND X,Y,Z COORDINATES)

Tube Dimension D63.5x6.3mm; SA210 Gr.C, LHS Steam Cooled Wall @ 64 ML - Tube No. 1

## **DESCRIPTION OF BOILER FAILED TUBES**

## 13) PHOTOGRAPHS OF LOCATION OF FAILURE BEFORE START OF REPAIR WORK

Primary Failure (Steam Cooled LHS Wall)



Secondary Damage (Screen Tube Waterwall)

### 14) PHOTOGRAPHS OF PRIMARY FAILED TUBE

### 15) PHOTOGRAPHS OF REPAIRED LOCATION AFTER RESTORATION WORK

Secondary Damage (Screen Tube Waterwall) Attended as Pinhole

Primary Failure (Steam Cooled LHS Wall) Replacement of Spool



# 16) DETAILS OF REPAIR WORK (SPECIFY JOINT DETAILS, COIL NO./ TUBE NO. & RESTORATION WORK) Waterwall Tubes

Replacement of Spool Pieces and attending to the Pinholes No of Spools Replaced - 1 at 64 ML; No. of pinholes attended - 1 at 64 ML

## 17) DETAILS OF INSPECTION OF ADJACENT AND IDENTICAL LOCATIONS

Physical inspection of adjacent coils for signs of erosion/water/steam impingement. No other abnormalities observed. Thickness survey of adjacent tubes. All values were within the norms

DPT testing of surrounding areas undertaken to ascertain the visible healthiness of fin welding and pinholes if any. No other abnormalities

## 18) HISTORY OF WORK IN FAILED TUBE/COIL/LOCATION IN PAST FIVE YEARS

	HISTORY OF WORK (DETAILS OF WORK DONE IN THE AREA/COIL									
YEAR	LOCATION	Tube/Coil No.	No. OF TUBES REPLACED	NATURE OF FAILURE & WORK						
	NIL									

# 19) REMARKS

## 20) STATION OBSERVATION W.R.T. CAUSE OF TUBE FAILURE

Attachment weld pinhole of LHS Steam Cooled Wall Tube No. 1 (Front to Rear). Secondary damage in Rear Screen Waterwall Tube 1 (LHS to RHS).

COPY TO: 1) DISPLAY IN UCB

2) GM/O&M

3) HOD (OS-BOILER)

(SIGNATURE OF BTF HEAD)

NAME: DESIGNATION: DATE:

