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

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

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) STATION: NTPL	2) UNIT	UNIT No.		3) LAST UNIT OUTAGE			Dec-22 4) LAST UNIT O/H		Nov-21
5) UNIT SHUTDOWN FROM	18	01	23		18	13	9) OUTAGE HOURS	49	41
6) WATER FILLING CLEARANCE	20	01	23		14	30	(ONLY DUE TO BTF)	hh	mm
) CLEARANCE FOR LIGHTUP	20	01	23		16	30	10) GENERATION LOSS		
(AFTER REPAIR OF BTF)	dd	mm	уу		hh	mm	(ONLY DUE TO BTF)		MUS
3) UNIT SYNCHRONISED AT	20	01	23		19	54			
1) BTF INSPECTED BY	dd	mm	уу	•	hh	mm			
BTF COMMITTEE HEAD				M	TP		FQA		
CHEMISTRY				OPER	ATION		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 D51x6mm; SA210 Gr.C, Corner 4 Burner Panel 40 ML Tube No. 5 from RHS WW

#### **DESCRIPTION OF BOILER FAILED TUBES**

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

Secondary Failure



14) PHOTOGRAPHS OF PRIMARY FAILED TUBE



15) PHOTOGRAPHS OF REPAIRED LOCATION AFTER RESTORATION WORK



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 - 2 at 52 ML; No. of pinholes attended - 3 at 40 ML

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

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

#### 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 failure in 40 ML of Tube 5 of burner panel of Corner 4 resulting in Fish mouth opening at 52 ML of Corner 4 Transition tubes of the same tube due to starvation.

COPY TO: 1) DISPLAY IN UCB

2) GM/O&M

3) HOD (OS-BOILER)

(SIGNATURE OF BTF HEAD)

NAME: DESIGNATION: DATE:

