

# **CENTRIFUGAL AND REFRIGERATION CHILLER LOG – WEEKLY**

(Post near chiller and initial when tested)

#### **INSTRUCTIONS:**

- 1. Continued safe operation of a chiller depends on regular maintenance and testing of the chiller. The tests and checks outlined below are designed to determine whether or not the chiller and controls are in good operating condition.
- 2. Should any check or test indicate that the device being tested or observed is not in good operating condition, it should be repaired or replaced immediately. Record repairs or replacements under "Remarks" so that a complete record will be available for review at any time.

MANUFACTURER									NUI	NUMBER REFRIGERANT									WEEK BEGINNING									
			Outside	COMPRESSOR						MO	MOTOR GEAR OIL			R OIL	CHILLER					CONDENSER			PURGE		_			
-	C	DAY		Position	BEA	ARING	4	(	OIL				RL AMPS				RE	REFRIGERANT		WATER		REFRIGERANT		WATER TEMP.		. Li	o t	tor or ty
		AND Time	Temp	Cap Indicator	Temp.	Temp.	Level	Temp. Reservoir	Temp. Leaving Cooler	Press.	VOLTS	A	В	С	Press.	Temp.	Level	Press.	Temp.	In	Out	Press.	Temp.	In	Out	Frequency of Operation	Amount Water Demoved	Operator on Duty
	z	A.M.																										
١٢	NOM	P.M.																										
	S	A.M.																										
E D/	TUES	P.M.																										
TWIC	D	A.M.																										
DRD	WED	P.M.																										
TEST RECORD TWICE DAILY	R	A.M.																										
EST	THUR	P.M.																										
CHECK OR TI	~	A.M.																										
	FRI	P.M.																										
풍	F	A.M.																										
	SAT	P.M.																										
	z	A.M.																										
	SUN	P.M.																										
LO (Thi	LOG REVIEWER (This log reviewer should not be the same individual who fills this log on an hourly basis.) RE								EMARKS																			
REVIEWED BY DATE																												

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This log is intended to complement the equipment manufacturers'

recommendations - not replace them. If you have doubts about any

particular testing or maintenance procedure, contact the manufacturer or your equipment service representative.

(If you have any questions regarding your equipment or need to schedule an inspection, call 1-800-333-4677.)

### SEND REQUESTS FOR ADDITIONAL LOGS TO:

The Hartford Steam Boiler Inspection and Insurance Company Attn: Inspection Services Hartford Steam Boiler PO Box 61509 King of Prussia, PA 19406 or by email: NSCINSP hotline@hsb.com

or scan this code





# CENTRIFUGAL AND REFRIGERATION CHILLER LOG – PERIODIC MAINTENANCE

(Post near chiller and initial when tested)

# IMPORTANT

For reliable and uninterrupted service, the following maintenance items should be given attention as indicated.

## Compressor

After 40,000 operating hours or 5 years, whichever comes first, the compressor should be disassembled. Impeller(s) should be examined for rubbing, grooves and cracks – cleaned, nondestructively tested and balanced. Guide vanes, linkage and bushings examined for lost motion, wear, sticking stems and nondestructively tested. The main shaft, pinion, and gears should be nondestructively tested.

#### Tubes

- 1. The water side surfaces should be cleaned **annually**.
- 2. Eddy current analysis should be performed on condenser tubes within 3 to 5 years of service, and on evaporator tubes within 5 to 7 years of service. The detection of any wear, corrosion, or deterioration of tubes will determine when subsequent testing of the tubes should be performed.

#### Controls

All safety and operating controls should be tested annually, calibrated to design conditions and their set points recorded. Defective safety devices and controls should be replaced.

## **Oil/Refrigerant**

- When oil or refrigerant is added, record date and amount.
- Also indicate leak tests, repairs and adjustments.
- Oil samples should be taken and tested for physical and chemical properties.

## Purge Unit (Centrifugal Compressors)

- When provided, should be overhauled at least once a year with interim service checks performed as recommended by the manufacturer.
- Use Reports section below to record all service calls including:
  - 1. Service Company/Name & Tel. No.
  - 2. Date of service call.
  - 3. Work performed.
- Date and time machine shut down on safety control.

	OPERATING AND SAFETY CONTROL TESTS													
TUBES	OIL PRE SAFETY C		LOW REFR PRESSURE/TEMPE			LED WATER JRE CONTROL	FLOW PRESSURE DIFFERENTIAL CONTROL							
DATE CLEANED	SETTING	CONDITION	SETTING	CONDITION	SETTING	CONDITION	CHILLED WATER	CONDITION						
DATE OF EDDY CURRENT TEST	DATE TESTED	INITIALS	DATE TESTED	INITIALS	DATE TESTED	INITIALS	CONDENSER WATER	CONDITION						
REMARKS	1	:			l	1	DATE TESTED	INITIALS						
								1						