Monthly Fire Pump Churn Test Procedure

BEFORE PUMP IS OPERATED
- Fire pump churn test log should be used to verify test – form on reverse side.
- Notify alarm company of pending churn test.
- Shut off jockey pump.
- Check drip pockets under packing gland for proper drainage.
- Check packing adjustment – approximately one drop per second is necessary to keep packing lubricated.
- Confirm fire pump is in automatic mode.

START PUMP FOR CHURN TEST
- Open small pet cock valve on side or under pump controller to begin pressure drop. Keep valve open until pump starts automatically.
- **PRECAUTION:** Attach small drain hose to pet cock valve or place five-gallon container under the valve to catch the discharged water.
- Close pet cock valve once pump starts.

WHILE PUMP IS OPERATING
- Read suction and discharge gauges – difference between these readings indicates churn pressure, which should match churn pressure as shown on pump nameplate (record on test sheet).
- Observe packing glands for proper leakage for cooling of packing (note on test sheet).
- Observe discharge from casing relief valve – adequate flow keeps pump case from overheating (note on test sheet).
- Allow pump to run for seven (7) minutes.
- Shut pump off after seven (7) minutes.
- Note on test sheet if no adverse conditions were found during the test.

AFTER CHURN TEST IS COMPLETED
- Reset fire pump to automatic mode.
- Reset jockey pump to automatic mode.
- Notify alarm company that test is completed; return fire pump alarms to service.
- Test sheet shall be dated and signed by test personnel.
- Adverse conditions shall be brought to attention of facility manager.
# MONTHLY FIRE PUMP CHURN TEST LOG

## Site and Location

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### Fire pump starts in response to pressure drop

### Casing relief valve flows to drain while fire pump is running

### Casing relief valve stops flowing when fire pump shuts off

### Log suction operating pressure

### Log discharge operating pressure

### Monitor pump packing temperature

### Stuffing box drains freely

### Pump operation signals fire alarm panel service

### Jockey pump returned to automatic

### Fire pump returned to automatic

### Fire alarm panel returned to service

## Operator

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## Comments

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