## Job Information

Job #: 94157 Date: April 19, 2018

Priority: — Authorized OT: No Authorized by:

## Customer Information

Name: Entergy White Bluff Reason:

Contact: Motor#: PO#:

Application: — Special notes:

## Name Plate Information

| | | | |
|---|---|---|---|
| Manufacturer: | GE | Enclosure : | Totally Enclosed Fan Cooled |
| Serial#: | XSP1442MQ02B | Model#: | 5KE284DSP103 |
| Service Factor: | 1.15 | Frame: | 284TC |
| Horsepower/kW: | 30 | Rated RPM: | 3550 |
| Rated Amps: | 35.7 | Rated Voltage: | 460 |
| Phase: | 3 | Cycles: | 60 |
| Special design: | No | | |

Enclosure Type image

Nameplate

DE

ODE

F1

F2

Top

# Mechanical Inspection

Inspect bolt holes and fasteners. Validate correct fasteners.

| | | | |
|---|---|---|---|
| Does the shaft turn freely?: | Yes | Contaminant(s): | Dirt |
| Shaft rotation: | — | Contaminant(s) Amt: | Cup |
| Shaft grounding device present?: | No | Contaminant Image: |  |
| Type of grounding device: | | | |
| Shaft runout(TIR-Inbound): | | | |

| | | | |
|---|---|---|---|
| Bearings DE: | Worn | Bearings DE make: | SKF |
| Insulated: | No | Bearing DE Size: | 6310Z |
| Bearings ODE: | Worn | Bearings ODE make: | SKF |
| Bearing Type: | Ball | Bearing ODE Size: | 6310Z |
| Bearings Retainer: | Yes | Thermal Protection: | No |
| Retainer condition: | Good | Thermal Protection Type: | — |

Bearing Type Image

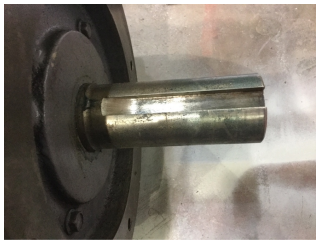
Bearing Make Image

Bearing Retainer Image

Thermal Protection

Not Available

## Mechanical Inspection (Continued)

| | | | |
|---|---|---|---|
| Lubrication Type: | Grease | Thermal Protection device DE: | — |
| Lubrication brand inbound: | Unknown | Thermal Protection device ODE: | — |
| Lubrication brand outbound: | Unknown | | |
| Grease Amt DE: | 1/2 | Grease Cond. DE: | New |
| Grease Amt ODE: | 1/2 | Grease Cond. ODE: | New |
| Seals DE type: | N/A | Seals Image: | |
| Seals DE size: | | | Not Available |
| Seals DE (inbound) condition : | | | |
| | | Seals Image 2: | |
| Seals ODE type: | N/A | | Not Available |
| Seals ODE size: | | | |
| Seals ODE (inbound) condition : | | | |
| Shaft damage cause: | None | Shaft Image: |  |

## Mechanical Inspection (Continued)

Brg. Image:

Bushings/sleeves image:

Water jacket: N/A

Fan: N/A

Frame cond.: Good

Not Available

Not Available

Motor Mount Position: Horizontal/Foot mount

Endbell type: Single piece

Missing parts?

- [x] J-Box cover
- [ ] O-rings
- [x] J-Box
- [ ] HH cover
- [ ] Glands
- [ ] None

Other missing parts

Endbell Image:

## Mechanical Inspection (Continued)

| Air Gap Meaurements (N/A on Single Piece Endbell) | | Does Air Gap Meet Customer or EASA spec(<10% variation)? |
|---|---|---|
| DE @ 0 | ODE @ 0 | — |
| DE @ 90 | ODE @ 90 | |
| DE @ 180 | ODE @ 180 | |
| DE @ 270 | ODE @ 270 | |

## AC Electrical Inspection

Number of leads: 3

Length of leads: 8”

Size of leads: 12

Lead condition: Good

Lug type:

Lug Condition: Good

Lug size:

Lug Attachment: Acceptable

Terminal Markings:

REF: NEMA Stds. MG 1-2009, Rev. 1-2010, 2.41-Terminal Markings Identified By Color:

1-Blue
2-White
3-Orange
4-Yellow
5-Black
6-No color assigned
7-No color assigned
8-Red
P1-No color assigned
P2-Brown

Connections As Received:

Terminal

Lugs

# AC Electrical Inspection (Continued)

Rotor Type: Cast Aluminum

Rotor Condition: Ok

Num rotor bars:

Num broken bars:

Rotor

**Rotor Test Results**

Visual: Pass

Growler: Pass

Single phase: Pass

Stator type: Factory

If other, stator type:

Stator condition: Ok

If other, stator condition:

Failure location: Other

If other, stator failure:

Stator Image:

Failure Image:

Not Available

## AC Electrical Inspection (Continued)

| | | | | | |
|---|---|---|---|---|---|
| Winding color: | Still has color | Winding image | | Winding Thermal Protection: | No |
| Winding condition : | Solid |  | | Not Available | |
| Winding Thermal Protection DE: | — | | | | |
| Winding Thermal Protection ODE: | — | | | | |
| Stator test results: | Salvageable | | | | |

| | | | | | | |
|---|---|---|---|---|---|---|
| Megs incoming: | Good | Surge incoming: | Good | Hi-pot incoming: | Good | |

**Winding Resistance Incoming**

| | Phases A to B | Phases B to C | Phases C to A | Resistive imbalance |
|---|---|---|---|---|
| Incoming | 0.380 | 0.379 | 0.379 | 0.1 |

| | | | |
|---|---|---|---|
| Leads/jumpers: | Ok | Lead jumper Image. : | Not Available |
| If other, leads/jumpers: | | | |

# Conclusion

**Component Failure**

Checks ok electrically surge percentage is a little high @11% on pre wash

**Cause of Failure**

**Comments**

Service Tech name: Lynn McDonald

Service Tech signature: