

FERMI 2 INSERVICE TESTING PROGRAM FOR PUMPS AND VALVES

FERMI 2 FOURTH 10 YEAR INTERVAL - START DATE 02/17/2020

PART 3: IST PUMP SCOPE TABLE REVISION 4

Revision Summary:

Revised per LCR 19-045-ISI.

| | | <u>QUAL</u> |
|---|---|---|
| Prepared: Jeffrey D. Auler, e55603, see attached email. | Date: 1/8/21 | PE-03 <input checked="" type="checkbox"/> |
| IST Program Manager | | |
| Reviewed: Craig Shepherd, e55018, see attached email. | Date: 1/8/21 | PE-03 <input checked="" type="checkbox"/> |
| Qualified Program Engineer | | |
| Reviewed: James Wines, e54431, see attached email. | Date: 1/12/21 | N/A |
| Supervisor, Performance Engineering | | |
| Approved: Randy Breymaier, e50801, see attached email. | Date: 1/15/21 | N/A |
| Manager, Performance Engineering | | |

INFORMATION AND PROCEDURES

DSN: IST Pump Scope Table
 DTC: TM PLAN
 Date Approved: _____

Rev: 4 Date: 1/25/21
 File: 1715.04 Recipient: _____
 Release authorized by: _____

Part 3 - IST Program Pump Tables

| Pump ID | Comp Description | Drawing / Coor | Group | Class | Pump Type | Fixed or Var | Actual Speed | Test Type | Test Freq. | Procedure | Notes |
|------------|-----------------------------------|----------------|-------|-------|-------------------------------------|--------------|--------------|-----------|------------|-----------|---------|
| C4103C001A | North Standby Liquid Control Pump | 5704 / E-5 | B | 2 | Reciprocating Positive Displacement | FIXED | LT600 | P | 2Y | 24.139.02 | TP-19 |
| | | | | | | | | Q | 2Y | 24.139.02 | TP-19 |
| | | | | | | | | V | 2Y | 24.139.02 | |
| | | | | | | | | P | Q | 24.139.02 | |
| | | | | | | | | Q | Q | 24.139.02 | |
| | | | | | | | | V | Q | 24.139.02 | |
| C4103C001B | South Standby Liquid Control Pump | 5704 / D-5 | B | 2 | Reciprocating Positive Displacement | FIXED | LT600 | P | 2Y | 24.139.02 | TP-19 |
| | | | | | | | | Q | 2Y | 24.139.02 | TP-19 |
| | | | | | | | | V | 2Y | 24.139.02 | |
| | | | | | | | | P | Q | 24.139.02 | |
| | | | | | | | | Q | Q | 24.139.02 | |
| | | | | | | | | V | Q | 24.139.02 | |
| E1102C002A | Residual Heat Removal Pump A | 5706-2 / B-6 | A | 2 | Centrifugal | FIXED | GE600 | dP | 2Y | 24.204.01 | TP-19 |
| | | | | | | | | Q | 2Y | 24.204.01 | TP-19 |
| | | | | | | | | V | 2Y | 24.204.01 | PRR-001 |
| | | | | | | | | dP | Q | 24.204.01 | |
| | | | | | | | | Q | Q | 24.204.01 | |
| | | | | | | | | V | Q | 24.204.01 | PRR-001 |
| E1102C002B | Residual Heat Removal Pump B | 5706-1 / B-4 | A | 2 | Centrifugal | FIXED | GE600 | dP | 2Y | 24.204.06 | TP-19 |
| | | | | | | | | Q | 2Y | 24.204.06 | TP-19 |
| | | | | | | | | V | 2Y | 24.204.06 | PRR-001 |

Part 3 - IST Program Pump Tables

| Pump ID | Comp Description | Drawing / Coor | Group | Class | Pump Type | Fixed or Var | Actual Speed | Test Type | Test Freq. | Procedure | Notes |
|------------|------------------------------|----------------|---------|-------|---------------------|--------------|--------------|-----------|------------|-----------|----------------|
| E1102C002B | Residual Heat Removal Pump B | 5706-1 / B-4 | A | 2 | Centrifugal | FIXED | GE600 | dP | Q | 24.204.06 | |
| | | | | | | | | Q | Q | 24.204.06 | |
| | | | | | | | | V | Q | 24.204.06 | PRR-001 |
| E1102C002C | Residual Heat Removal Pump C | 5706-2 / B-8 | A | 2 | Centrifugal | FIXED | GE600 | dP | 2Y | 24.204.01 | TP-19 |
| | | | | | | | | Q | 2Y | 24.204.01 | TP-19 |
| | | | | | | | | V | 2Y | 24.204.01 | PRR-001 |
| | | | | | | | | dP | Q | 24.204.01 | |
| | | | | | | | | Q | Q | 24.204.01 | |
| V | Q | 24.204.01 | PRR-001 | | | | | | | | |
| E1102C002D | Residual Heat Removal Pump D | 5706-1 / B-3 | A | 2 | Centrifugal | FIXED | GE600 | dP | 2Y | 24.204.06 | TP-19 |
| | | | | | | | | Q | 2Y | 24.204.06 | TP-19 |
| | | | | | | | | V | 2Y | 24.204.06 | PRR-001 |
| | | | | | | | | dP | Q | 24.204.06 | |
| | | | | | | | | Q | Q | 24.204.06 | |
| V | Q | 24.204.06 | PRR-001 | | | | | | | | |
| E1151C001A | RHR Service Water Pump A | 5706-3 / G-4 | A | 3 | Vertical Line Shaft | FIXED | GE600 | dP | 2Y | 24.205.05 | PRR-003, TP-19 |
| | | | | | | | | Q | 2Y | 24.205.05 | TP-19 |
| | | | | | | | | V | 2Y | 24.205.05 | PRR-002 |
| | | | | | | | | dP | Q | 24.205.05 | PRR-003 |
| | | | | | | | | Q | Q | 24.205.05 | |
| V | Q | 24.205.05 | PRR-002 | | | | | | | | |
| E1151C001B | RHR Service Water Pump B | 5706-3 / G-5 | A | 3 | Vertical Line Shaft | FIXED | GE600 | dP | 2Y | 24.205.06 | PRR-003, TP-19 |
| | | | | | | | | Q | 2Y | 24.205.06 | TP-19 |
| | | | | | | | | V | 2Y | 24.205.06 | PRR-002 |
| | | | | | | | | dP | Q | 24.205.06 | PRR-003 |
| | | | | | | | | Q | Q | 24.205.06 | |
| V | Q | 24.205.06 | PRR-002 | | | | | | | | |
| E1151C001C | RHR Service Water Pump C | 5706-3 / G-4 | A | 3 | Vertical Line Shaft | FIXED | GE600 | dP | 2Y | 24.205.05 | PRR-003, TP-19 |
| | | | | | | | | Q | 2Y | 24.205.05 | TP-19 |

Part 3 - IST Program Pump Tables

| Pump ID | Comp Description | Drawing / Coor | Group | Class | Pump Type | Fixed or Var | Actual Speed | Test Type | Test Freq. | Procedure | Notes |
|------------|--------------------------|----------------|-------|-------|---------------------|--------------|--------------|-----------|------------|-----------|----------------|
| E1151C001C | RHR Service Water Pump C | 5706-3 / G-4 | A | 3 | Vertical Line Shaft | FIXED | GE600 | V | 2Y | 24.205.05 | PRR-002 |
| | | | | | | | | dP | Q | 24.205.05 | PRR-003 |
| | | | | | | | | Q | Q | 24.205.05 | |
| | | | | | | | | V | Q | 24.205.05 | PRR-002 |
| E1151C001D | RHR Service Water Pump D | 5706-3 / G-5 | A | 3 | Vertical Line Shaft | FIXED | GE600 | dP | 2Y | 24.205.06 | PRR-003, TP-19 |
| | | | | | | | | Q | 2Y | 24.205.06 | TP-19 |
| | | | | | | | | V | 2Y | 24.205.06 | PRR-002 |
| | | | | | | | | dP | Q | 24.205.06 | PRR-003 |
| | | | | | | | | Q | Q | 24.205.06 | |
| E2101C001A | Core Spray Pump A | 5707 / D-6 | B | 2 | Centrifugal | FIXED | GE600 | dP | 2Y | 24.203.02 | TP-19 |
| | | | | | | | | Q | 2Y | 24.203.02 | TP-19 |
| | | | | | | | | V | 2Y | 24.203.02 | |
| | | | | | | | | dP | Q | 24.203.02 | PRR-004 |
| | | | | | | | | Q | Q | 24.203.02 | PRR-004 |
| E2101C001B | Core Spray Pump B | 5707 / D-3 | B | 2 | Centrifugal | FIXED | GE600 | dP | 2Y | 24.203.03 | TP-19 |
| | | | | | | | | Q | 2Y | 24.203.03 | TP-19 |
| | | | | | | | | V | 2Y | 24.203.03 | |
| | | | | | | | | dP | Q | 24.203.03 | PRR-004 |
| | | | | | | | | Q | Q | 24.203.03 | PRR-004 |
| E2101C001C | Core Spray Pump C | 5707 / D-4 | B | 2 | Centrifugal | FIXED | GE600 | dP | 2Y | 24.203.02 | TP-19 |
| | | | | | | | | Q | 2Y | 24.203.02 | TP-19 |
| | | | | | | | | V | 2Y | 24.203.02 | |
| | | | | | | | | dP | Q | 24.203.02 | PRR-004 |
| | | | | | | | | Q | Q | 24.203.02 | PRR-004 |
| E2101C001D | Core Spray Pump D | 5707 / D-2 | B | 2 | Centrifugal | FIXED | GE600 | dP | 2Y | 24.203.03 | TP-19 |

Part 3 - IST Program Pump Tables

| Pump ID | Comp Description | Drawing / Coor | Group | Class | Pump Type | Fixed or Var | Actual Speed | Test Type | Test Freq. | Procedure | Notes |
|------------|--|-------------------------|-------|-------|-------------|--------------|--------------|-----------|------------|-------------------------|---------|
| E2101C001D | Core Spray Pump D | 5707 / D-2 | B | 2 | Centrifugal | FIXED | GE600 | Q | 2Y | 24.203.03 | TP-19 |
| | | | | | | | | V | 2Y | 24.203.03 | |
| | | | | | | | | dP | Q | 24.203.03 | PRR-004 |
| | | | | | | | | Q | Q | 24.203.03 | PRR-004 |
| | | | | | | | | V | Q | 24.203.03 | PRR-004 |
| E4101C001A | HPCI - Main Pump | 5708-1 / E-3 | B | 2 | Centrifugal | VAR | GE600 | dP | 2Y | 24.202.01 | TP-19 |
| | | | | | | | | N | 2Y | 24.202.01 | |
| | | | | | | | | Q | 2Y | 24.202.01 | TP-19 |
| | | | | | | | | V | 2Y | 24.202.01 | |
| | | | | | | | | dP | Q | 24.202.01, 24.202.08 | |
| | | | | | | | | N | Q | 24.202.01, 24.202.08 | |
| | | | | | | | | Q | Q | 24.202.01, 24.202.08 | |
| V | Q | 24.202.01, 24.202.08 | | | | | | | | | |
| E5101C001 | RCIC Pump | 5709-1 / E-4 | B | 2 | Centrifugal | VAR | GE600 | dP | 2Y | 24.206.01 | TP-19 |
| | | | | | | | | N | 2Y | 24.206.01 | |
| | | | | | | | | Q | 2Y | 24.206.01 | TP-19 |
| | | | | | | | | V | 2Y | 24.206.01 | |
| | | | | | | | | dP | Q | 24.206.01 | |
| | | | | | | | | N | Q | 24.206.01 | |
| | | | | | | | | Q | Q | 24.206.01 | |
| V | Q | 24.206.01 | | | | | | | | | |
| P4400C001A | Emergency Equip Cooling Water Div 1 Pump | 5729-1 / C-7 | B | 3 | Centrifugal | FIXED | GE600 | dP | 2Y | 24.207.08 | |
| | | | | | | | | Q | 2Y | 24.207.08 | |
| | | | | | | | | V | 2Y | 24.207.08 | PRR-002 |
| | | | | | | | | dP | Q | 24.207.08 | |
| | | | | | | | | Q | Q | 24.207.08 | |

Part 3 - IST Program Pump Tables

| Pump ID | Comp Description | Drawing / Coor | Group | Class | Pump Type | Fixed or Var | Actual Speed | Test Type | Test Freq. | Procedure | Notes |
|------------|--|----------------|-------|-------|---------------------|--------------|--------------|-----------|------------|-----------|---------|
| P4400C001A | Emergency Equip Cooling Water Div 1 Pump | 5729-1 / C-7 | B | 3 | Centrifugal | FIXED | GE600 | V | Q | 24.207.08 | |
| P4400C001B | Emergency Equip Cooling Water Div 2 Pump | 5729-2 / F-7 | B | 3 | Centrifugal | FIXED | GE600 | dP | 2Y | 24.207.09 | |
| | | | | | | | | Q | 2Y | 24.207.09 | |
| | | | | | | | | V | 2Y | 24.207.09 | PRR-002 |
| | | | | | | | | dP | Q | 24.207.09 | |
| | | | | | | | | Q | Q | 24.207.09 | |
| | | | | | | | | V | Q | 24.207.09 | |
| P4400C002A | EECW Makeup Div 1 Pump | 5729-1 / B-8 | B | 3 | Centrifugal | FIXED | GE600 | dP | 2Y | 24.208.02 | |
| | | | | | | | | Q | 2Y | 24.208.02 | |
| | | | | | | | | V | 2Y | 24.208.02 | PRR-002 |
| | | | | | | | | dP | Q | 24.208.02 | |
| | | | | | | | | Q | Q | 24.208.02 | |
| | | | | | | | | V | Q | 24.208.02 | |
| P4400C002B | EECW Makeup Div 2 Pump | 5729-2 / A-7 | B | 3 | Centrifugal | FIXED | GE600 | dP | 2Y | 24.208.03 | |
| | | | | | | | | Q | 2Y | 24.208.03 | |
| | | | | | | | | V | 2Y | 24.208.03 | PRR-002 |
| | | | | | | | | dP | Q | 24.208.03 | |
| | | | | | | | | Q | Q | 24.208.03 | |
| | | | | | | | | V | Q | 24.208.03 | |
| P4500C002A | Emergency Equip Service Water South Pump | 5706-3 / G-3 | A | 3 | Vertical Line Shaft | FIXED | GE600 | dP | 2Y | 24.208.02 | PRR-003 |
| | | | | | | | | Q | 2Y | 24.208.02 | |
| | | | | | | | | V | 2Y | 24.208.02 | PRR-002 |
| | | | | | | | | dP | Q | 24.208.02 | PRR-003 |
| | | | | | | | | Q | Q | 24.208.02 | |
| | | | | | | | | V | Q | 24.208.02 | PRR-002 |
| P4500C002B | Emergency Equip Service Water North Pump | 5706-3 / G-6 | A | 3 | Vertical Line Shaft | FIXED | GE600 | dP | 2Y | 24.208.03 | PRR-003 |
| | | | | | | | | Q | 2Y | 24.208.03 | |
| | | | | | | | | V | 2Y | 24.208.03 | PRR-002 |
| | | | | | | | | dP | Q | 24.208.03 | PRR-003 |

Part 3 - IST Program Pump Tables

| Pump ID | Comp Description | Drawing / Coor | Group | Class | Pump Type | Fixed or Var | Actual Speed | Test Type | Test Freq. | Procedure | Notes |
|------------|--|----------------|-------|-------|-----------------------|--------------|--------------|-----------|------------|-----------|---------|
| P4500C002B | Emergency Equip Service Water North Pump | 5706-3 / G-6 | A | 3 | Vertical Line Shaft | FIXED | GE600 | Q | Q | 24.208.03 | |
| | | | | | | | | V | Q | 24.208.03 | PRR-002 |
| R3000C001 | EDG 11 Diesel Fuel Oil Xfer Pump A | 5734 / F-8 | B | 3 | Positive Displacement | FIXED | GE600 | P | 2Y | 24.307.34 | |
| | | | | | | | | Q | 2Y | 24.307.34 | |
| | | | | | | | | V | 2Y | 24.307.34 | PRR-002 |
| | | | | | | | | P | Q | 24.307.34 | |
| | | | | | | | | Q | Q | 24.307.34 | |
| | | | | | | | | V | Q | 24.307.34 | PRR-002 |
| R3000C002 | EDG 12 Diesel Fuel Oil Xfer Pump A | 5734 / F-8 | B | 3 | Positive Displacement | FIXED | GE600 | P | 2Y | 24.307.35 | |
| | | | | | | | | Q | 2Y | 24.307.35 | |
| | | | | | | | | V | 2Y | 24.307.35 | PRR-002 |
| | | | | | | | | P | Q | 24.307.35 | |
| | | | | | | | | Q | Q | 24.307.35 | |
| | | | | | | | | V | Q | 24.307.35 | PRR-002 |
| R3000C003 | EDG 11 Diesel Fuel Oil Xfer Pump B | 5734 / E-8 | B | 3 | Positive Displacement | FIXED | GE600 | P | 2Y | 24.307.34 | |
| | | | | | | | | Q | 2Y | 24.307.34 | |
| | | | | | | | | V | 2Y | 24.307.34 | PRR-002 |
| | | | | | | | | P | Q | 24.307.34 | |
| | | | | | | | | Q | Q | 24.307.34 | |
| | | | | | | | | V | Q | 24.307.34 | PRR-002 |
| R3000C004 | EDG 12 Diesel Fuel Oil Xfer Pump B | 5734 / E-8 | B | 3 | Positive Displacement | FIXED | GE600 | P | 2Y | 24.307.35 | |
| | | | | | | | | Q | 2Y | 24.307.35 | |
| | | | | | | | | V | 2Y | 24.307.35 | PRR-002 |
| | | | | | | | | P | Q | 24.307.35 | |
| | | | | | | | | Q | Q | 24.307.35 | |
| | | | | | | | | V | Q | 24.307.35 | PRR-002 |
| R3000C009 | EDG 13 Diesel Fuel Oil Xfer Pump A | 5734 / F-8 | B | 3 | Positive Displacement | FIXED | GE600 | P | 2Y | 24.307.36 | |
| | | | | | | | | Q | 2Y | 24.307.36 | |
| | | | | | | | | V | 2Y | 24.307.36 | PRR-002 |

Part 3 - IST Program Pump Tables

| Pump ID | Comp Description | Drawing / Coor | Group | Class | Pump Type | Fixed or Var | Actual Speed | Test Type | Test Freq. | Procedure | Notes |
|-----------|------------------------------------|----------------|---------|-------|-----------------------|--------------|--------------|-----------|------------|-----------|---------|
| R3000C009 | EDG 13 Diesel Fuel Oil Xfer Pump A | 5734 / F-8 | B | 3 | Positive Displacement | FIXED | GE600 | P | Q | 24.307.36 | |
| | | | | | | | | Q | Q | 24.307.36 | |
| | | | | | | | | V | Q | 24.307.36 | PRR-002 |
| R3000C010 | EDG 14 Diesel Fuel Oil Xfer Pump A | 5734 / F-8 | B | 3 | Positive Displacement | FIXED | GE600 | P | 2Y | 24.307.37 | |
| | | | | | | | | Q | 2Y | 24.307.37 | |
| | | | | | | | | V | 2Y | 24.307.37 | PRR-002 |
| | | | | | | | | P | Q | 24.307.37 | |
| | | | | | | | | Q | Q | 24.307.37 | |
| V | Q | 24.307.37 | PRR-002 | | | | | | | | |
| R3000C011 | EDG 13 Diesel Fuel Oil Xfer Pump B | 5734 / E-8 | B | 3 | Positive Displacement | FIXED | GE600 | P | 2Y | 24.307.36 | |
| | | | | | | | | Q | 2Y | 24.307.36 | |
| | | | | | | | | V | 2Y | 24.307.36 | PRR-002 |
| | | | | | | | | P | Q | 24.307.36 | |
| | | | | | | | | Q | Q | 24.307.36 | |
| V | Q | 24.307.36 | PRR-002 | | | | | | | | |
| R3000C012 | EDG 14 Diesel Fuel Oil Xfer Pump B | 5734 / E-8 | B | 3 | Positive Displacement | FIXED | GE600 | P | 2Y | 24.307.37 | |
| | | | | | | | | Q | 2Y | 24.307.37 | |
| | | | | | | | | V | 2Y | 24.307.37 | PRR-002 |
| | | | | | | | | P | Q | 24.307.37 | |
| | | | | | | | | Q | Q | 24.307.37 | |
| V | Q | 24.307.37 | PRR-002 | | | | | | | | |
| R3001C005 | EDG 11 DG Service Water Pump | 5706-3 / G-2 | A | 3 | Vertical Line Shaft | FIXED | GE600 | dP | 2Y | 24.307.34 | PRR-003 |
| | | | | | | | | Q | 2Y | 24.307.34 | |
| | | | | | | | | V | 2Y | 24.307.34 | PRR-002 |
| | | | | | | | | dP | Q | 24.307.34 | PRR-003 |
| | | | | | | | | Q | Q | 24.307.34 | |
| V | Q | 24.307.34 | PRR-002 | | | | | | | | |
| R3001C006 | EDG 12 DG Service Water Pump | 5706-3 / G-3 | A | 3 | Vertical Line Shaft | FIXED | GE600 | dP | 2Y | 24.307.35 | PRR-003 |
| | | | | | | | | Q | 2Y | 24.307.35 | |

Part 3 - IST Program Pump Tables

| Pump ID | Comp Description | Drawing / Coor | Group | Class | Pump Type | Fixed or Var | Actual Speed | Test Type | Test Freq. | Procedure | Notes |
|-----------|---------------------------------|----------------|-------|-------|---------------------|--------------|--------------|-----------|------------|-----------|---------|
| R3001C006 | EDG 12 DG Service Water Pump | 5706-3 / G-3 | A | 3 | Vertical Line Shaft | FIXED | GE600 | V | 2Y | 24.307.35 | PRR-002 |
| | | | | | | | | dP | Q | 24.307.35 | PRR-003 |
| | | | | | | | | Q | Q | 24.307.35 | |
| | | | | | | | | V | Q | 24.307.35 | PRR-002 |
| R3001C007 | EDG 13 DG Service Water Pump | 5706-3 / G-6 | A | 3 | Vertical Line Shaft | FIXED | GE600 | dP | 2Y | 24.307.36 | PRR-003 |
| | | | | | | | | Q | 2Y | 24.307.36 | |
| | | | | | | | | V | 2Y | 24.307.36 | PRR-002 |
| | | | | | | | | dP | Q | 24.307.36 | PRR-003 |
| | | | | | | | | Q | Q | 24.307.36 | |
| | | | | | | | | V | Q | 24.307.36 | PRR-002 |
| R3001C008 | EDG 14 DG Service Water Pump | 5706-3 / G-7 | A | 3 | Vertical Line Shaft | FIXED | GE600 | dP | 2Y | 24.307.37 | PRR-003 |
| | | | | | | | | Q | 2Y | 24.307.37 | |
| | | | | | | | | V | 2Y | 24.307.37 | PRR-002 |
| | | | | | | | | dP | Q | 24.307.37 | PRR-003 |
| | | | | | | | | Q | Q | 24.307.37 | |
| | | | | | | | | V | Q | 24.307.37 | PRR-002 |
| T4100C040 | South CCHVAC Chilled Water Pump | 5736-2 / F-3 | A | 3 | Centrifugal | FIXED | GE600 | dP | 2Y | 24.413.01 | |
| | | | | | | | | Q | 2Y | 24.413.01 | |
| | | | | | | | | V | 2Y | 24.413.01 | PRR-002 |
| | | | | | | | | dP | Q | 24.413.01 | |
| | | | | | | | | Q | Q | 24.413.01 | |
| | | | | | | | | V | Q | 24.413.01 | PRR-002 |
| T4100C041 | North CCHVAC Chilled Water Pump | 5736-2 / F-3 | A | 3 | Centrifugal | FIXED | GE600 | dP | 2Y | 24.413.01 | |
| | | | | | | | | Q | 2Y | 24.413.01 | |
| | | | | | | | | V | 2Y | 24.413.01 | PRR-002 |
| | | | | | | | | dP | Q | 24.413.01 | |
| | | | | | | | | Q | Q | 24.413.01 | |
| | | | | | | | | V | Q | 24.413.01 | PRR-002 |

Jeffrey D Auler

From: Craig E Shepherd
Sent: Friday, January 8, 2021 12:39 PM
To: Jeffrey D Auler
Subject: Approvals, IST Pump Scope Table

To: Jeff Auler, IST Program Manager

I have reviewed and approved the following

| DTC | DSN | Revision | Approval |
|--------|----------------------|----------|-----------------------------|
| TMPLAN | IST Pump Scope Table | 4 | Reviewer: Craig Shepherd |

I also authorize any page renumbering required by inclusion of this email within the overall document as required per NSIP-20-0005.

Regards, Craig Shepherd

Jeffrey D Auler

From: Jeffrey D Auler
Sent: Friday, January 8, 2021 1:13 PM
To: Jeffrey D Auler
Subject: IST Pump Scope Table

I have prepared and approve the following

| DTC | DSN | Revision | Approval |
|--------|----------------------|----------|-----------------------------------|
| TMPLAN | IST Pump Scope Table | 4 | Preparer: Jeffrey D. Auler /s/ |

I also authorize any page renumbering required by inclusion of this email within the overall document as required per NSIP-20-0005.

Regards, Jeffrey D. Auler

Jeffrey D Auler

From: James D Wines
Sent: Tuesday, January 12, 2021 4:11 PM
To: Jeffrey D Auler
Cc: Randy D Breymaier
Subject: Pump Scope Tables
Attachments: IST Program Plan Part 3 Pump Scope Table.pdf

I have reviewed and approve the following as the Supervisor, Programs Engineering

| DTC | DSN | Revision | Approval |
|--------|----------------------|----------|--------------------------------|
| TMPLAN | IST Pump Scope Table | 4 | Reviewer: James D Wines /s/ |

I also authorize any page renumbering required by inclusion of this email within the overall document as required per NSIP-20-0005.

James Wines | Supervisor – Nuclear Engineering (Programs)

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Jeffrey D Auler

From: Randy D Breymaier
Sent: Friday, January 15, 2021 1:39 PM
To: Jeffrey D Auler
Subject: Pump scope table (part 3)

I have reviewed and approve the following as Manager, Engineering Programs:

| DTC | DSN | Revision | Approval |
|--------|----------------------|----------|---|
| TMPLAN | IST Pump Scope Table | 4 | Manager Approval Randy Breymaier /s/ |

I also authorize any page renumbering required by inclusion of this email within the overall document as required per NSIP-20-0005.

Randy Breymaier
Manager Performance Engineering
734 586-1811