SCHEMATIC DEPICTS VARIABLE SPEED FAN CONTROL. FOR OTHER INSTRUMENTATION, SEE TYPICAL FAN CONTROL DIAGRAM ON DRAWING 86043.

PLC, SIC, SPEED, FAN PLC, ST, SIC, VFD, INLET BELL AND SCREEN, M

DEVELOPMENT INTAKE FAN (IN SERVICE)

DEVELOPMENT INTAKE FAN (STANDBY)

SCHEMATIC DEPICTS VARIABLE SPEED FAN CONTROL. FOR OTHER INSTRUMENTATION. SEE TYPICAL FAN CONTROL DIAGRAM ON DRAWING 86043.

TOP OF SHAFT MONITORING

PLC, INTAKE FAN PLC, AIT, NON-RADIOACTIVE PARTICULATE, AE, NON-RADIOACTIVE PARTICULATE, AIT, HUMIDITY, AE, HUMIDITY, TIT, TE, AAH, NON-RADIOACTIVE PARTICULATE, HUMIDITY, AR, AR, TR, AI, AI, TI

INTAKE

INTAKE

DEVELOPMENT INTAKE SHAFT

FLOW

NORTH PORTAL AREA MONITORING

AAH, NON-RADIOACTIVE PARTICULATE, HUMIDITY, AR, AR, TR, AI, AI, TI, PLC, NEAREST EXHAUST BOOSTER FAN PLC, AIT, NON-RADIOACTIVE PARTICULATE, AE, NON-RADIOACTIVE PARTICULATE, AIT, HUMIDITY, AE, HUMIDITY, TIT, TE

BOTTOM OF SHAFT

FAL, AAH, AAH, HUMIDITY, CO, FR, AR, AR, AAH, TR, FI, AI, AI, AI, TI, PLC, NEAREST EXHAUST BOOSTER FAN PLC, FIT, FE, AIT, AE, NON-RADIOACTIVE PARTICULATE, NON-RADIOACTIVE PARTICULATE, AIT, AE, HUMIDITY, HUMIDITY, AIT, AE, CO, CO, TIT, TE

NORTH RAMP MONITORING

RADIOACTIVE PARTICULATE, NON-RADIOACTIVE PARTICULATE, AAH, FAL, AAH, AAH, HUMIDITY, CO, AR, FR, AR, AR, AAH, TR, AI, FI, AI, AI, AI, TI

TYPICAL:
EAST MAIN (NORTH SIDE)
NORTH MAIN
WEST MAIN (NORTH SIDE)
CROSS DRIFTS

TO EMPLACEMENT EXHAUST FANS

EXHAUST

FAL, FR, TR, FI, TI, PDAL, PDR, PDI, PDIT, PLC, PDE, FLOW

NORTH PORTAL

INTAKE

NEAREST EXHAUST BOOSTER FAN PLC, PLC, FIT, FE, AIT, AE, NON-RADIOACTIVE PARTICULATE, NON-RADIOACTIVE PARTICULATE, AIT, AE, HUMIDITY, HUMIDITY, AIT, AE, CO, CO, TIT, TE, AIT, AE, RADIOACTIVE PARTICULATE, RADIOACTIVE PARTICULATE

NEAREST EXHAUST BOOSTER FAN PLC, PLC, FIT, FE, TIT, TE, FLOW

AIRLOCK

TYPICAL:
EAST MAIN
EXHAUST MAIN
WEST MAIN

FLOW

REPOSITORY MAINS AND DRIFTS

TYPICAL: EAST MAIN (SOUTH SIDE)
SOUTH RAMP EXTENSION
WEST MAIN (SOUTH SIDE)
CROSS DRIFTS

FAL, FR, TR, FI, TI

SOUTH RAMP MONITORING

NON-RADIOACTIVE PARTICULATE, FAL, AAH, AAH, HUMIDITY, CO, FR, AR, AR, AAH, TR, FI, AI, AI, AI, TI

NEAREST EXHAUST BOOSTER FAN PLC, PLC, FIT, FE, AIT, AE, NON-RADIOACTIVE PARTICULATE, NON-RADIOACTIVE PARTICULATE, AIT, AE, HUMIDITY, HUMIDITY, AIT, AE, CO, CO, TIT, TE

SOUTH PORTAL

SOUTH PORTAL AREA MONITORING

NON-RADIOACTIVE PARTICULATE, AAH, HUMIDITY, AR, AR, TR, AI, AI, TI, PLC, FORMER CONSTRUCTION FAN PLC, AIT, NON-RADIOACTIVE PARTICULATE, AE, NON-RADIOACTIVE PARTICULATE, AIT, HUMIDITY, AE, HUMIDITY, TIT, TE

EXHAUST → ATM

NOTES:

1. CONSTRUCTION FANS FOR EMPLACEMENT SIDE VENTILATION SHAFT SINKING ARE CONTROLLED LOCALLY AND ARE NOT SHOWN ON THIS SCHEMATIC.
2. BOOSTER FAN NUMBERS VARY WITH LOCATION OF THE WORK.
3. BOOSTER FAN SEQUENTIAL STARTING INTERLOCKS NOT SHOWN.
4. FOR GENERAL ARRANGEMENT OF VENTILATION PLAN SEE DRAWING 86033.
5. FOR SYMBOL DESCRIPTIONS AND INSTRUMENT IDENTIFICATION SEE DRAWING 86035.

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DESIGN INPUTS
SEE DRAWING INPUTS LIST

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Yucca Mountain Site Characterization Project
M&O Civilian Radioactive Waste Management System MANAGEMENT & OPERATING CONTRACTOR

REPOSITORY DESIGN

SS VENT - DUCTED EXHAUST MONITORING, P&ID CONDITION 4, SHEET 1 OF 2

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