



- SEQUENCE:
1. EF-2 ENERGIZED BY TIMED WALL SWITCH, MD-2 OPENS.
 2. EF-1 RUNS CONTINUOUSLY, OVERRIDE OCCUPANCY SENSOR.
 3. RTU-29 R/A DAMPER FULLY CLOSES, O/A DAMPER OPENS. RTU-29 SUPPLIES 800 CFM OF FRESH AIR TO SPACE BY MODULATING SIA DAMPER, RECIRCULATION DAMPER TO ALLOW 400 CFM AIRFLOW. SPACE IS NEGATIVELY PRESSURIZED BY 275 CFM.
 4. AFTER 60 MINS, EF-2 DE-ENERGIZES, MD-2 CLOSES. CONTROLS FOR RTU-29 AND EF-1 REVERT TO NON-SMUDGING OPERATION SEQUENCING.

- SEQUENCE:
1. OCCUPANCY SENSOR IS ACTIVATED, MD-1 OPENS, EF-1 IS ENERGIZED, RTU-29 O/A DAMPER MODULATES TO ALLOW 250 CFM INTO SPACE, RETURN DAMPER IS SET AT 300 CFM, SUPPLY AIR DAMPER SET AT 550 CFM, RECIRCULATION DAMPERS SET AT 650 CFM, SPACE IS NEGATIVELY PRESSURIZED BY 25 CFM.
 2. OCCUPANCY SENSOR IS DEACTIVATED, EF-1 IS DE-ENERGIZED, MD-1 CLOSES, RTU-29 O/A DAMPER FULLY CLOSES, UNIT OPERATES AS REQUIRED TO HEAT SPACE WITH RECIRCULATED AIR.

1 SMUDGING ROOM OPERATIONAL SCHEMATICS
N.T.S.



Association of Professional Engineers & Geoscientists of Saskatchewan
CERTIFICATE OF AUTHORIZATION
 WSP Canada Inc.
 Number **C0688**
 Permission to Consult held by:
 Discipline: **MECHANICAL** 9159

0	ISSUED FOR TENDER	17/06/13
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Client
PUBLIC WORKS AND GOVERNMENT SERVICES CANADA
 SASKATOON SASKATCHEWAN

Project Title
SASKATOON, SK REGIONAL PSYCHIATRIC CENTRE
ROOFTOP AIR HANDLING UNITS REPLACEMENT

approved by
BND
 designed by
BP
 drawn by
ML/MB
 PWGSC Project Manager

PWGSC, Architectural and Engineering Resources Manager

Client
CORRECTIONAL SERVICE CANADA

Drawing Title
MECHANICAL
SCHEMATICS

project no.	sheet	revision no.
R.079699.001	M8.1	0

