

108050000-TD0009-R01

# Spallation Neutron Source

## FELK Air & Waste Systems Functional System Design (FSD)

October, 2002

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SNS Project Engineer



A U . S . D e p a r t m e n t o f E n e r g y M u l t i l a b o r a t o r y P r o j e c t

SPALLATION NEUTRON SOURCE

Argonne National Laboratory • Brookhaven National Laboratory • Lawrence Berkeley National Laboratory • Los Alamos National Laboratory • Oak Ridge National Laboratory

## **FELK Building Air and Waste Controls Description TD80009 Rev 1**

### **Operating Philosophy**

#### Purpose:

The purpose of the air and waste systems operation is to:

- a) Provide an operator indication of the air pressure on the 2 inch compressed air header in the Klystron building
- b) Provide high level operator alarms (driven by level switches) for the sump in the Linac tunnel and the six sumps in the Klystron building.

Assumptions: There are two pumps and one level switch in each sump. Control of these pumps is provided by local control equipment that is provided by the General Contractor and has no interface with CF Controls level switches in the sumps.

#### Operator Controls and Operating Modes

None

### **OPERATOR INTERFACE DEFINITIONS**

#### Local Hardware/Manual Operator Controls

None

#### Software HMI/EPICS Digital Operator Controls

None

#### Software HMI/EPICS Digital Displays

- 1) Level Switch Status for each sump (*LSH 8201, LSH 8300, LSH 8301, LSH 8302, LSH 8303, LSH 8304, LSH 8305*)

#### Software HMI/EPICS Analog Operator Controls

None

#### Software HMI/EPICS Analog Displays

- 1) Compressed air header pressure (*PT6300*)

#### Alarms

- 1) Klystron air header pressure high and low
- 2) Sump level high

### **Control Logic Description**

None

Screens

