

# MARTIN COMPANY

NUCLEAR  
DIVISION  
Baltimore,  
Maryland  
21203

January 12, 1965

Refer to: ACC-361  
Internal Mail 845

U. S. Atomic Energy Commission  
Division of Material Licensing  
Washington, D. C.

Attention: Mr. Alexander Aikens, Jr.  
Chief, Fuels Processing Branch

Subject: Proposed Amendment to Byproduct License  
19-1398-29

Gentlemen:

Enclosed are six copies each of revised pages for Byproduct License 19-1398-29 which correct air system pressure differentials to more feasible and proper minimum values.

We request your concurrence with these revisions by January 22, 1965, prior to performance of our strontium-89 trace runs and subsequent full scale production. Should any clarification in this matter be required please contact Mr. M. J. Gaitanis at our Quehanna, Pennsylvania facility.

Very truly yours,



C. W. Keller, Nuclear  
Accountability &  
Licensing Rep.

/plm

Enclosures

B-5A

TABLE 6.3

PRESSURE DIFFERENTIALS

<u>READING</u>	<u>GAGE-ACCURACY</u>	<u>MINIMUM</u>
1. Operations Area to Cell 4	Hays $\pm$ .02	0.3
2. Operations Area to Other Cells	Hays $\pm$ .02	0.4
3. Cell 4 to Process Box	Magnehelic (0-.5) $\pm$ .01	0.1
4. Service Area to Isolation Room 4	Hays $\pm$ .02	0.1
5. Service Area to Other Isolation Rooms	Hays $\pm$ .02	0.1
6. Isolation Room 4 to Cell 4	Hays $\pm$ .02	0.1
7. Other Isolation Rooms to respective Cells	Hays $\pm$ .02	0.1
8. Operations Area to Outer SOTS	Magnehelic (0-2) $\pm$ .04	0.1
9. Outer to Inner SOTS	Magnehelic (0-.5) $\pm$ .01	0.1
10. Inner SOTS to 4B (Process Box)		0.05

NOTE: (a) All readings, in inches of water.

(b) Above pressure differentials apply with isolation room to service area door closed.

Revisions: 2  
Date: 1-12-65

Revision: 2

Date: 1-12-65

TABLE 6.4

MINIMUM AIR VELOCITIES (NORMAL OPERATION)

	VELOCITY (feet/second)
1. Operations Area to Cell 4	38.7
2. Operations Area to Other Cells	42.3
3. Cell 4 to Process Box	21.1
4. Service Area to Isolation Room 4	21.1
5. Service Area to Other Isolation Rooms	21.1
6. Isolation Room 4 to Cell 4	21.1
7. Isolation Rooms to Other Cells (Example cell No. 1 to Isolation No. 1)	21.1
8. Outer to Inner SOTS	21.1
9. Inner SOTS to 4B (Process Box)	14.9
10. 4B to 4A (in Process Box)	3.77

Revision: 1

Date: 1-12-65

6.6.1 Secondary Inlet Air

A 85 cfm absolute type filter will be placed in the service area with a manual 4-inch damper on the inlet which can be operated from the face of the SOTS. A 4-inch diameter tube will lead from the filter directly into the secondary containment. This will insure proper control of the pressure differentials between the service area, secondary and primary SOTS and the passage of air from clean to contaminated in a single pass.

6.6.2 Primary Inlet Air

An automatic damper will be installed behind a roughing filter between the primary and secondary SOTS containment near the Cell 3 downcomer door in a manner to make both the filter and damper accessible.

The above damper-filter will be designed to control the pressure drop across the two stages of containment.

6.6.3 Primary Air Exhaust

The inner SOTS containment will be exhausted through filters of at least 100 cfm capacity to the Cell 3 box exhaust system.

The SOTS exhaust duct will originate at a spot high in the inner containment with a 4-inch diameter duct coming down between the two containment barriers and through the Cell 3 roof area. Filters will be set up in parallel with a damper system to permit filter changes while maintaining an uninterrupted air flow.