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WANL-TME-275

From: Ground Support Engineering

Date: February 13, 1963

**Subject: Comments on E-MAD Phase II
Drawings Received 2/6/63**

ASTRO NUCLEAR LABORATORY

Mr. A. M. Poindexter

This document reflects our comments on the drawings and design information that we have received. It is therefore contingent upon the drawings and specifications which we have not as yet received from Vitro Engineering Company.

All comments contained herein are in agreement with previous comments and the criteria set forth by WANL-TNR-171 and various TME's.

1425-K-206

No Comment.

1425-K-207

1. In our meeting of December 13, 1962, we agreed that the filters for the air intake to the post-operative cells could be removed. However, for future use we would like assurance that these filters could be re-installed without any major overhaul of the facility.
2. Penetrations HH are indicated on drawing 1425-L-101 as having the centerline located at a height of 116'-6". The position of the bottom of the gallery false ceiling is not specifically defined. Is it at 118' or 115'? The false ceiling should be above 116'-9" in order to properly utilize these penetrations.

MASTER

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1425-K-208

No comment.

1425-A-304

No comment.

1425-A-305

No comment.

1425-A-306

No comment.

1425-H-203

No comment.

1425-H-207

No comment.

1425-H-213

No comment.

1425-M-203

1. Where do the water closets and urinals drain? It is indicated on other drawings that they drain into a cold sewage line. If this is the case, the urinals and water closets should be located on the cold side of the hot change room.

2. There is presently no indication of any drain facilities in the Transfer Tunnel and Air Lock, room #176. This situation must be rectified since this area may have to be utilized temporarily as a decontamination room. In addition, this area is between the cell service area and the hot change room and therefore will be a main passage way for all personnel who have been working in the cell service area. Therefore, the area itself, even without being used as a decontamination facility, will undoubtedly become contaminated and therefore a draining system is imperative to allow ease in decontamination.
3. Why are there no facilities for draining the tracks in the cell service area? These tracks are as likely to become filled with water as are the post-operative cells. In addition, there are no facilities for the bus-bar to be drained.

1425-M-204

1. The same comments as item (1) on drawing 1425-M-203.
2. On drawing 1425-H-207, the distance between the rail can be scaled as approximately 4'-8-1/2", the rail separation between the other E-MAD facility rails. The equipment cars that will be located within the cells will have to be track mounted in order to move them into the cell service area and, therefore the same rail gauge is necessary throughout the post-operative cell equipment on the equipment car. Another reason for the utilization of a single rail gauge is that it may be necessary to remove remotely, because of contamination, the equipment car and this will only be possible if the rail gauge is the same throughout the facility.

3. There is a drawing in section BB of a plug drain. In previously submitted drawings it has been noted that there is a check valve to prevent water from backing up into the cells. We therefore cannot see any reason for your design of the plug drain. Our plan of operation for decontamination of the equipment car, is to spray the unit with water prior to removal from the cell. We therefore will not have access to this plug drain and therefore would not be able to remove it. We therefore cannot accept the design.

1425-M-205

1. There is no indication of the vacuum piping for each of the post-operative cells which we agreed upon during the meeting at Vitro on 11/13/62.
2. In order to operate various rotary pneumatic equipment that plant air lines into each cell must be at least $3/4$ " in diameter. We therefore request that the size of these lines be increased to $3/4$ ".
3. In order to fully utilize the Transfer Tunnel and the Air Lock, room #176, it is requested that utilities be located therein. We therefore wish to see the same utilities piping arrangement as in the gallery of each of the hot cells.

A. J. Svasek
Ground Support Engineering

AJS/kes