

Examination of the roof area over the hot cell verified the adequacy of the posting to prevent inadvertent entry into a radiation area in that location. Examination of the cell windows verified the adequacy of the visibility of the windows and the lighting within the cell. Examination of the radiation monitoring equipment verified the presence and operability of each of the area monitors.

11. Independent Measurements

During the inspection a discussion of various possibilities revealed that one of the two doors in the pass-through port between cells #1 and 2 could be open, while the entrance into cell #2 achieved. This situation was deliberately achieved, while a Jordan Radector was placed in cell #2 to measure the radiation levels produced by the source in cell #1. Levels of 5 R/hr were observed through the cell #2 viewing windows. The door to cell #2 was then opened cautiously; scattered radiation at the entrance was measured at 2-3 mR/hr; the radiation monitors outside the cells did not alarm. The door to cell #2 was then closed and the open pass-through door was also closed.

A licensee representative pointed out that the pass-through doors are operated by a single key, which cannot be removed from the lock except when the lock is positioned so as to close both the doors. He said that he would prevent the above situation by fastening the pass-through key to the cell entry key thereby making the use of the cell entry key impossible unless both pass-through doors were first locked. The two keys were bolted together with the end of the bolt peened over so as to make removal of the nut very difficult, and unintentional removal of the nut impossible. The inspectors were given to understand that the keys would remain bolted together.

An Eberline Model E-120 gm survey meter, calibrated by BNL in May, 1974, was used to monitor radiation levels around the cells before, during, and after the raising of the source in Cell #2. (A special source was stored within cell #1 throughout the entire inspection.) The levels found were all below 1 mR/hr.

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