



April 17, 1984

Procedure #33Source Storage Pool Water Sampling

Sampling of the Old Cell source storage Pool water will be performed on an as necessary basis to quantify pH, conductivity, & Co60 activity.

- add!*
Avoid placing
hand under
water.
- A. Personnel to perform actual sampling at the Pool area will be suited according to Procedure #23.
 - B. Containers used for in house samples will be 20 ml scintillation vials or 6 oz. plastic cups, all other containers will be provided by Regulatory or Contract personnel.
 - C. As many sample containers as are necessary will be taken into the Enclosure by the individual to perform the sampling. Small samples for activity analysis in house will be taken in the 20 ml vials & samples for pH & conductivity samples in the 6 oz. cups.
 - D. Surface samples of water will be taken 8 to 10 inches from the side walls of the pool to eliminate a sample containing contaminants from the side walls of the tank.
 - E. Clean paper toweling will be used to wipe any excess water from the outside of the container prior to removing it from the Enclosure. After having been passed out of the Enclosure to an individual wearing latex gloves the sample or samples shall be surveyed with the Wm. B. Johnson GSM-5 to ascertain no samples above 1 mr/hr on contact are removed from the Enclosure.
 - F. Samples taken to the Office area shall be kept on paper toweling & handled with latex gloves.
 - G. Upon completion of pH sampling, conductivity sampling, & activity analysis all instrumentation probes will be wiped with paper toweling.
 - H. All toweling & gloves will then be placed in a waste drum. Any remaining pool water will be remanded to the Enclosure & poured back into the Pool.
 - I. ** During sampling of pool water personnel are not to submerge their fingers below water line.
- we're is*
this equipment
kept.
~~to be kept~~

BJT/lmm

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Roof Shield Adaptation on Cell Area

Prior to initiation of Procedure # (35) the shield over the roof of the Cell and Pool Area shall be removed and then modified to permit easier use of handling tools in the pool system and accomodate shield reduction over the Labyrinth.

I. Removal of the shielding block and support steel beams shall be initiated with the following precautions.

A. Personnel shall be equipped and suited as in Procedure #23 with the addition of the following: leather gloves, Moasden Power Pullwinch and chain 6'.

B. To eliminate the possibility of materials falling into the Pool, the Pool Cover plate will be lowered into position over the pool (the cover plate currently rests against the back wall of the pool Area.)

C. With the aid of the Moasden Pullwinch and chain personnel will lower the pool Cover plate mechanically. Once in place the work may commence on the Roof Area. Subsequent lowering of the Pool Plate may be initiated by the same method and raising of the Plate by the inverse.

D. Shielding blocks removed from the roof area will be placed along the continuation of the wall.

along the East End of the Enclosure.

- II. ~~A.~~ Restructuring of the Roof area will be accomplished by steel beams and plywood taken from the ^{and performed} Roof of the Labyrinth in Procedure # 35, simultaneously.
- A. The first layer shall consist of steel beams spaced at 18" distance over the pool and cell area, supported in a North-South orientation.
- B. The second support layer shall be a double layer of $\frac{1}{2}$ " plywood with a one foot gap at the center of the roof to permit insertion of long tools into the Pool.
- C. Shielding block shall be placed two layers thick (8" total) over the plywood with a one foot gap remaining for the passage of tools.
- D. ~~The~~ The Victoreen Vamp probe (monitoring radiation level over the pool system) shall be moved to a new location directly over the pool underneath the shield when completed.

#035

Modification of Labyrinth Shielding

The shield on the East wall of the Labyrinth does not provide ^{essential} radiation shielding and blocks the transfer of the storage cask to the pool area and ~~other~~ passageway out of the Enclosure. Modification of the shield will assist operations subsequent to transfer of casks to and from the pool area.

I. The Roof Area shielding supported by steel channel shall be removed from the area shown on the attached diagram for a distance of 10 feet beginning at the main beam at the Cell area.

A. Personnel to perform these operations shall be equipped as in Procedure #23 with the addition of leather gloves.

B. Surveys (area readings) shall be performed before and after the completion of shield modification. No materials are currently stored in this area which would produce an area reading above 1 mSv/hr at roof level.

C. Blocks removed from the roof area will be placed on the wall which will be extended parallel to the Enclosure East wall.

II. ~~The~~ Shielding Block will also be removed ~~which will allow~~ ^{surrounding} the Storage Cask to enable it being moved into the Labyrinth area.

A. Area surveys will be performed as these walls are removed to verify shield adequacy. The block removed from this area shall also be ~~placed~~ placed along the East Wall continuation.

B. The East Storage area previously not vacuumed shall be vacuumed as necessary and wetwiped to reduce airborne contamination.

C. Any non-essential materials or equipment may be placed into low-level waste drums as necessary during the work in this area.

III. At the completion ^{of} ~~the~~ phases I and II the steel channel beams will be removed from the roof area of the labyrinth to begin removal of the East wall of the labyrinth and corner of cell area.

A. Upon Removal from the roof area beams will be placed along the West wall along with plywood for eventual further use.

B. As shielding block are removed from the East wall they will be placed along the continued wall parallel to the East wall of the Enclosure.

C. After removal of block to floor level the area shall be vacuumed and wetwiped to reduce airborne contamination.

D. The roof support beams will be replaced towards the South end of the labyrinth and the shielding block replaced for two bays.

E. There is no necessity for roof shielding at the Labyrinth area near the Cell and therefore the shielding will not be replaced over this area.

IV. With the completion of area surveys and phases I, II, and III ~~being~~, the storage cask can then be moved to the Labyrinth area by personnel as necessary.

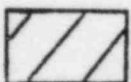
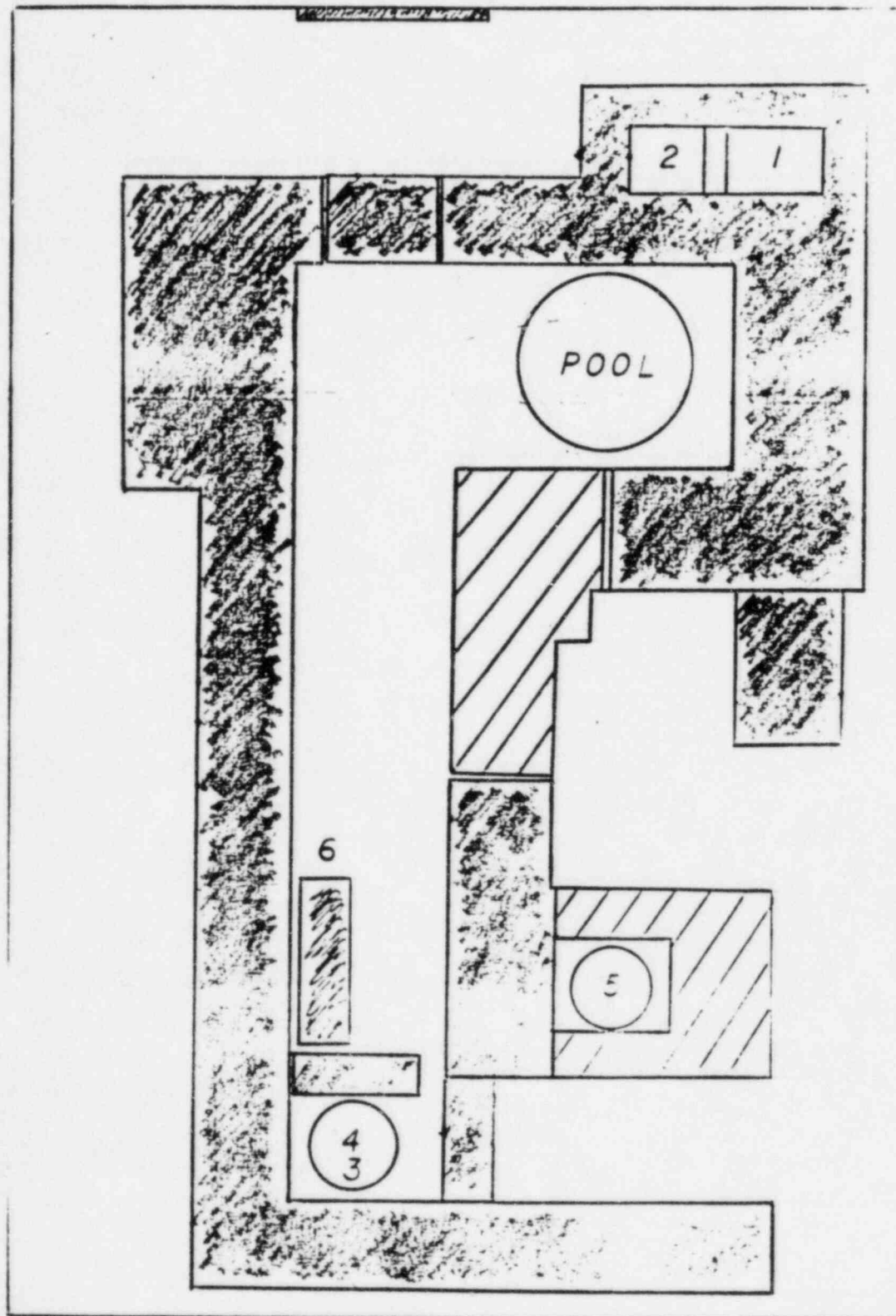
A. Movement of the cask toward the cell area once into the Labyrinth may be assisted by ~~chain attached to the~~ the use of large pry bars.

B. The fork lift may also be used with a length of chain to pull the ~~cask~~ dolly mounted cask from the Labyrinth to the Cell area.

C. This cask which contains one 1970 age date source in a screw threaded encapsulation shall remain sealed until a designated procedure for its use is implemented.

ENCLOSURE

SHADING - CURRENT



SHIELD TO 13 E REMOVED

REFER TO PROCEDURE 30

323'

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