

ARGONNE NATIONAL LABORATORY

HIGH ENERGY PHYSICS DIVISION



ARGONNE WAKEFIELD ACCELERATOR

AWA SHIELDING POLICY AND PROCEDURES

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SHIELDING REMOVAL/ REPLACEMENT

Introduction:

This document is intended for use if the AWA vault shielding needs to be removed, e.g., if it is necessary to move equipment into the vault, which is too large to pass through the labyrinths, or if the shielding needs to be moved or modified for the insertion of cables, etc.. It describes the procedures required to verify shielding integrity after replacement and to re-authorize facility operations.

SHIELDING REMOVAL

The AWA group leader must authorize any removal of shielding blocks. A Health Physics technician will perform a survey to verify that no residual radiation is present on the shielding materials to be removed and on any materials from the vault interior which are to be removed.

SHIELDING REPLACEMENT AND VERIFICATION

After the shielding has been replaced, Health Physics will be asked to perform radiation measurements at the first RF or beam-on operation of the facility. After verifying that the radiation outside the shielding is within the approved limits for the facility, Health Physics will notify the AWA group leader.

FACILITY OPERATIONS REAUTHORIZATION

The group leader, upon receiving either written or verbal communication from Health Physics that the shielding has been successfully reassembled, will make a notation in the official facility logbook to that effect. This will constitute re-authorization of facility operations.