

Advanced Photon Source

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Issuance of Ionizing Radiation Dosimeters at the APS

Changes made in this revision:

- No changes made to this procedure since its last review

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POLICY

Dosimeters will be regularly issued by Argonne External Dosimetry and/or Health Physics to APS personnel/users who *routinely* need to access areas or engage in activities requiring a dosimeter.

Specifically, dosimeters will be regularly issued to APS personnel/users who:

- At least once per calendar quarter must enter any radiological controlled area that is posted by the Argonne Health Physics Group as *Radiological Controlled Area, dosimeter required* for entry. Note: dosimeters are not required to access either the majority of the APS Experiment Hall or the top of the storage ring tunnel;
- At least once per calendar quarter engage in activities for which there may be radiation exposure hazards and that, according to Argonne ESH requirements, requires a dosimeter to be worn (e.g., operation of an analytic x-ray generator); or
- Are likely to receive 0.1 rem/year or more from one or more sealed radioactive sources. Note: Typically, wearing a dosimeter is not required for, and will not be regularly issued for, the handling of exempt sealed source (i.e., a source whose activity is less than the values in 10CFR835 Appendix E).

For those who less frequently require a dosimeter, a dosimeter may be obtained from Health Physics assigned to APS.

A person who is not regularly issued a dosimeter may request automatic issuance of dosimeters. This request should be made to their Division Director or, in the case of users that are not APS employees, the Deputy Associate Laboratory Director - Operations through the User Safety Officer, and should explain why the dosimetry is sought.

TRAINING REQUIRED

For persons regularly being issued a dosimeter: Radiation Worker I and practical

FEEDBACK AND IMPROVEMENT

If you are using this procedure and have comments or suggested improvements for it, please go to the [APS Policies and Procedures Comment Form](#)* to submit your input to a Procedure Administrator. If you are reviewing this procedure in workflow, your input must be entered in the comment box when you approve or reject the procedure.

Instructions for execution-time modifications to a policy/procedure can be found in the following document: Field Modification of APS Policy/Procedure ([APS_1408152](#)).

* <https://www.aps.anl.gov/Document-Central/APS-Policies-and-Procedures-Comment-Form>