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Recommended Best Practices Derived from Test Reactor Irradiation Experiments

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Staff members at PNNL have conducted numerous neutron irradiation experiments at research and test reactors in the US and overseas. Many of these experiments were conducted in support of programs that are subject to commercial nuclear quality assurance requirements (NQA-1 or 10 CFR 50 Appendix B). While this degree of quality assurance rigor may not be appropriate for proton irradiation experiments supporting high power targetry, a graded approach to quality may be worth considering for future studies. The presentation will describe aspects of nuclear quality assurance that may be relevant to future irradiation experiments contemplated by the RaDIATE Collaboration. Recommendations for best practices will be offered based on past experience with reactor experiments.

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