

# ALARA Shielding Assessment Program

At NPO, we understand the ALARA objectives to maximize the effectiveness of the applied shielding, reduce the dose expenditure associated with the installation of temporary shielding, and implement permanent shielding where ever possible. Our mission continues to provide our customers with proven services and products.

The NPO team has participated in hundreds of successful ALARA Shielding Solution projects during our 30 years in business. Our customers benefit from that accumulated knowledge and experience. We and the customer also benefit from the fact that we are the manufacturers.

Based on customer suggestions that plant-wide shielding reviews would be valuable for both identifying specific opportunities and for developing ALARA planning goals, NPO launched the **ALARA Shielding Assessment Program**. Our goal, with this service, is to collaborate with your ALARA team to review your total shielding program(s), plant- or system-wide, and provide recommendations that will advance your overall source/term objectives.

## A typical engagement involves these steps:

- Review plant shield packages and their specific area dose reduction goals
- Interview plant personnel and categorize the dose contributing sources/areas into levels of effectiveness of the applied shielding, also including dose sources/areas that have yet to be addressed.
- Walk-down and document all areas of plant with known dose contributors
- Provide a Report that catalogs existing shielding applications, with recommendations and references of shielding solutions NPO has implemented at other sites.
- Collaborate with plant team to devise a prioritized listing of opportunities and identify those requiring cost/benefit reviews.

## ALARA (Shielding) Assessment Walk-down and Assessment Summary Report

The following is the typical walk-down agenda:

1. Review existing shielding programs and, If practical before the actual walk-down, categorize the dose contributors and shielding applications into (a) improve existing temporary shielding packages, (b) replace/clean up existing temporary packages that have become permanent and already have an engineering review/approval, (c) dose contributors that have yet to be addressed and (d) possible permanent shielding opportunities.
2. Walk-down all areas of plant that have known dose contributors, including High Rad Areas. With a plant-furnished digital camera, document all shielding applications as well as areas in which shielding is needed. Take notes and dimensional measurements throughout the process.
3. Provide an ALARA Shielding Assessment Report that catalogs existing shielding packages and areas of opportunity in a photo matrix that includes a description of each area accompanied by a suggestion of possible improvements with specific references to the accompanied "Reference Guide" which illustrates dozens of ALARA Shielding Solutions.
4. After plant personnel have reviewed the report, we work with them to develop a priority list. NPO will then provide a more detailed description of the suggested shielding application(s) along with an estimate of the cost/benefit.

**Contact NPO to discuss our ALARA Shielding Assessment Program. We look forward to learning about your shielding situation and sharing our 30 years of experience of successful implementation of ALARA solutions.**

**NUCLEAR POWER  
OUTFITTERS**

815-344-1166, Fax: 815-344-1116

1403 Corporate Drv., McHenry, IL 60050  
www.alarasolutions.com

