# IDENTIFYING TECHNICAL CHALLENGES IN

# SAFEGUARDS MEASUREMENTS OF ADVANCED

# SMALL MODULAR REACTOR FUEL ELEMENTS

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**Abstract**

Advanced small modular reactor (SMR) designs use various nuclear fuel element types that can be significantly different than those of conventional light-water reactor (LWR) fuels; they differ in size, composition, and chemical form (e.g., oxide, carbide, metallic). Nearly all the proposed advanced fuels use high-assay low-enriched uranium, which can have much higher enrichments than those of LWR fuels (currently limited to < 5 wt % 235U). The overarching goal of this work is to identify the potential technical challenges in safeguards verification measurements of these advanced fuel elements. This paper focuses on using modeling and simulation to assess (1) the performance of the existing instruments that are commonly used for safeguards measurements of LWR fuel elements, (2) how the performance for advanced fuel elements differs from that for LWR fuel elements, and (3) the potential challenges of using the existing instruments in meeting technical safeguards objectives for advanced fuel elements. This paper presents the simulation results from safeguards measurements of select fresh advanced fuel elements (e.g., pebble, prismatic fuel block, and metal fuel bundle) using commonly applied safeguards instruments, including a high-purity germanium gamma detector, the Uranium Neutron Coincidence Collar II, and the Fast Neutron Collar. The performance of these instruments for advanced fuel elements was then compared with that of LWR fuel elements, and the potential safeguards challenges of the advanced fuel elements are summarized and discussed herein. The findings are expected to be useful to the safeguards community and SMR developers, as new or alternative safeguards technologies can take years to develop and mature.

## INTRODUCTION

Dozens of advanced reactor (AR) designs are being pursued around the world [1]. These AR designs use various nuclear fuel types that can be significantly different than conventional light-water reactor (LWR) fuels—in terms of size, composition, and chemical form (e.g., oxide, carbide, metal). Nearly all the proposed AR fuels use high-assay low-enriched uranium (HALEU), which can have much higher enrichments (5–20 wt% 235U) than those of LWR fuels (currently limited to < 5 wt% 235U). Given that most of the existing safeguards measurement instruments have been developed for LWR fuel elements, potential technical challenges are expected when these existing instruments are applied to AR fuel elements. In advance of the wide use of these new fuel types around the world, identifying those challenges will afford international safeguards organizations—such as the International Atomic Energy Agency (IAEA)—extra time to adapt existing technologies or develop alternative technologies to overcome them. It will also help domestic AR developers develop plans to accommodate the new safeguards needs.

For the safeguards measurements of the LWR fuels, the enrichments of the **fuel pins** are routinely measured and verified by the safeguards inspectors using high-purity germanium (HPGe) detectors, and the fissile content of the **fuel assemblies** have been routinely measured and verified using the Uranium Neutron Coincidence Collar – II (UNCL-II) detector [2, 3]. To reduce the impacts of burnable poisons (e.g., gadolinium) used in LWR assemblies on the coincidence neutron signals, the IAEA has recently developed the Fast Neutron Collar (FNCL) [4] [5, 6]. In this work, HPGe, UNCL-II, and FNCL measurements were modeled and simulated on a set of AR fuel elements that are either equivalent to the LWR fuel pins (e.g., tri-structural isotropic [TRISO]–based pebbles and compacts) or the LWR fuel assemblies (e.g., prismatic graphite blocks). These AR fuel elements were chosen for study in this work based on our survey of domestic AR designs (discussed in the next subsection). These detectors’ performance on the various AR fuel elements are compared with that of the LWR fuels to identify challenges. Fuel pins and fuel assemblies of a pressurized water reactor (PWR)   
17 × 17 assembly design were used in this work to represent LWR fuels because it is one of the most widely used fuel designs.

### Survey of Advanced Reactor Fuels

Given the large number of AR designs being pursued by various organizations around the world, it is impossible to study all of them in this work. The US Department of Energy’s (DOE’s) Advanced Reactor Demonstration Program (ARDP) has down-selected domestic AR designs and is currently supporting 10 of those designs [7], which are shown in Table 1 along with the associated fuel types. Among the 10 ARs, 5 use TRISO-based fuel elements (e.g., pebbles or compacts); 2 use metal fuel; 2 use UO2 fuel, which is expected to be similar to existing LWR fuels; and 1 uses molten salt. This work focused on the various types of TRISO-based fuel elements (i.e., pebbles, compacts, and graphite fuel blocks) and metal fuel elements, which together represent 7 of these 10 AR designs. This work’s analysis also includes the Ultra Safe Nuclear Corporation (USNC) fuel elements (also TRISO based) because of the availability of their fuel design information in the public domain. Figure 1 shows four different forms of TRISO-based AR fuel element designs. More details of the AR fuel designs included in this work can be found in later sections.

TABLE 1. THE TEN AR DESIGNS SUPPORTED BY DOE’S ARDP PROGRAM [7].

|  |  |  |  |
| --- | --- | --- | --- |
| DOE program | Reactor name | Company name | Fuel type |
| Advanced Reactor Demonstration Projects (ARDP) | Xe-100 | X-Energy (XE) | Pebble (TRISO based) |
| Natrium | TerraPower | Metal fuel |
| Risk Reduction for Future Demonstration Projects | Hermes Reduced-Scale Test Reactor | Kairos Power (KP) | Pebble (TRISO based) |
| eVinci Microreactor | Westinghouse | Compact (TRISO based) |
| BWXT Advanced Nuclear Reactor (BANR) | BWXT | Compact (TRISO based) |
| Holtec SMR-160 Reactor | Holtec | UO2 (17 × 17) |
| Molten Chloride Reactor Experiment | Southern Company | Molten salt |
| Advanced Reactor Concepts-20 Projects (ARC-20) | Inherently Safe Advanced SMR for American Nuclear Leadership | Advanced Reactor Concepts, LLC | Metal fuel |
| Fast Modular Reactor Conceptual Design | General Atomics | UO2 in SiC cladding |
| Horizontal Compact High Temperature Gas Reactor | MIT | Compact (TRISO based) |

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Figure 1. (Upper left) A mock-up model of an X-Energy (XE) version of a pebble; (upper right) a mock-up model of a Kairos Power (KP) version of a pebble; (lower left) an x-ray image of a BWXT Advanced Nuclear Reactor (BANR) version of the compact; (lower right) a model of a USNC version of the compact.

## GAMMA DETECTOR MODELING OF FRESH AR FUEL “PINS”

HPGe gamma spectrometry measurements were simulated for several AR fuel elements that are equivalent to LWR fuel pins, including the BWXT Advanced Nuclear Reactor (BANR) TRISO compacts, USNC compacts, X-Energy (XE) pebbles, Kairos Power (KP) pebbles, and metal fuel pins. The sensitivity of the simulated gamma signals to fuel enrichments and fuel diversion were quantified to identify safeguards challenges. Table 2 summarizes the key characteristics of these AR fuel elements and a PWR fuel pin. For the TRISO-based AR fuel elements, the fuel matrix densities account for a mix of the TRISO particles (with coating layers) and the graphite or SiC matrix. Given that gamma rays are more heavily attenuated by material with higher density, the amounts of attenuation are expected to vary among these fuel elements because of their different fuel matrix densities. The differences in fuel radius among these fuel elements are also expected to impact the detected gamma signals because it is more difficult for gamma rays originating from “deeper” inside the fuel matrix to traverse the material before being detected.

TABLE 2. SUMMARY OF KEY CHARACTERISTICS OF THE AR FUEL ELEMENTS THAT WERE SIMULATED FOR GAMMA MEASUREMENTS.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | Metal Fuel Pin | BANR Compact | USNC Compact | XE Pebble | KP Pebble | PWR Fuel Pin |
| Fuel form | U-10Zr alloy | TRISO particles in graphite matrix with graphite shell | TRISO particles in SiC matrix with SiC shell | TRISO particles in graphite matrix with graphite shell | Similar as XE pebble but has an inner graphite core | UO2 ceramic |
| Fuel matrix density (g/cc) | 15.8 | 2.23 (40%PF) | 3.05 (60%PF) | 1.86 | 2.2 | 10.4 |
| Fuel radius (cm) | 0.23 | 0.52 | 0.92 | 2.5 | [1.52, 1.9] | 0.41 |
| “Cladding” radius (cm) | 0.315 | 0.617 | 1.15 | 3 | 2 | 0.475 |
| Fuel length (cm) | 200 | 2.5 | 3 | 3 | 2 | 366 |
| Areal fuel density (g/cm2) | 3.63 | 1.16 | 2.81 | 4.65 | 0.84 | 4.26 |

Notes: PF = packing fraction of TRISO particles in the matrix.

**2.1 GADRAS Modelling of Gamma Measurements**

A series of models for the Gamma Detector Response and Analysis Software (GADRAS) were developed to simulate the expected gamma spectra from the HPGe measurements of the 5 AR fuel elements and the PWR fuel pin shown in Table 2, as such verification measurements are routinely performed for safeguards inspections. GADRAS version 19.3.3 was used in this work, and the built-in response function for a coaxial HPGe detector with 60% efficiency was used. For modeling of the TRISO-based fuel elements, the TRISO particles and the matrix were artificially blended to form a homogenous material because GADRAS lacks the capability to account for individual TRISO particles. The accuracy in the simulation results is not expected to be significantly impacted by this assumption because these TRISO particles are small and randomly dispersed in the matrix. For each of the fuel elements, several enrichment cases were modeled to assess the detector’s sensitivity to the fuel enrichments. In addition, three fuel diversion scenarios, each accounting for 10%, 25%, and 50% of the fuel mass, were also simulated to assess the detector’s sensitivity to fuel diversions; in these scenarios, the enriched uranium in the inner part of the fuel was substituted with depleted uranium (DU). For all fuel elements, the diversion cases were performed using the nominal enrichment cases. For the TRISO compacts, an additional diversion case was simulated by using a lower-than-nominal packing fraction (PF) of the TRISO particles.

For the TRISO-based fuel elements, care must be taken to properly account for the large number of TRISO particles with their respective coating layers and the matrix to calculate the density and isotopic composition for the blended material to be used in the GADRAS models. As an example, Figure 2 shows the GADRAS model for a BANR compact. This model has only two material regions: (1) the blend of TRISO particles and graphite matrix and (2) the graphite shell. The detector is pointing to the side of the compact. Figure 2 shows the model to mimic a 10% fuel diversion, in which the uranium with 19.75% enrichment (i.e., the nominal design value for this fuel element) inside the pink-lined region was replaced with DU (i.e., the UCO kernels of the TRISO particles in that region were formed with DU instead of enriched uranium). Although they are not shown here, the two other diversion cases (25% and 50%) would have affected a larger inner part of the fuel than what is shown in Figure 2.

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Figure 2. (Left) A top view of the GADRAS model for the BANR compact, where the inner 10% fuel was substituted with DU; (right) a side view of the model.

**2.2 Simulated Gamma Measurement Results**

Figure 3 (Left) shows the simulated HPGe gamma spectra from a metal fuel pin with four different enrichments and with a partial defect (PD) case with a live time of 600 s. Only the energy range below 1100 keV is shown here because all the major (i.e., high-intensity) gamma lines from both 235U and 238U of interest are within this range. As shown, the major uranium x-rays (e.g., 94.7 and 98.4 keV), the 235U gamma lines (e.g., 144, 163, 186, and 205 keV), and the 238U gamma lines (e.g., 766, 1001 keV) are visible in these spectra. The spectrum of the PD case overlaps with the base case with the same enrichment (19.75%), indicating that the spectrum was not affected by the fuel diversion for this fuel element. Higher gamma peaks and continuum at energies lower than 200 keV can be seen in the spectra for higher enrichments. At energies above 200 keV, smaller differences were observed between different enrichments than those at energies below that level. Smaller count rate fluctuations were observed at energies lower than 200 keV for the rest of the spectra, which led to higher counting precisions at lower gamma energies. This result can be attributed to a higher detection efficiency for low-energy photons than that for photons with higher energies for these un-shielded fuel elements. Figure 3 (Right) shows the simulated HPGe gamma spectra from a BANR compact with four different enrichments, a partial defect case, and a lower packing fraction case, also with a live time of 600 s.

Note that “25%PF” stands for a packing faction of 25% (instead of the 40% nominal value) for the TRISO particles used in this case. Compared with the spectra of the metal pin, the gamma counts for the compact are ~10 times lower, which is unsurprising because of the lower uranium loading per unit length in the compact than in the metal fuel pin. In Figure 3, several peaks between 300 keV and 700 keV from 238U and its decay daughters are more pronounced in the right spectra than in the left spectra, which can be attributed to the much lower fuel density of the compact than that of the metal pin.

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Figure 3. Simulated HPGe gamma spectra for (Left) a metal fuel pin; (Right) a BANR compact.

The 186 keV gamma peak has been the primary gamma signature used by the safeguards inspector to verify enrichments in fresh fuel because its 57.2% yield (per decay disintegration) is higher than that of 235U’s second abundant gamma line, which is the 144 keV peak with a yield of 10.93%. The 1001 keV gamma peak from 238U (through its short-lived decay product of 234mPa) has also been used occasionally in safeguards verification, but it is less useful than the 186 keV peak because of the lower detection efficiency and lower yield (e.g., 0.84% vs. 57.2% for the 186 keV peak) of the 1001 keV peak. Therefore, the 186 keV peak is the primary peak used for analysis in this work. Figure 4 (Left) shows the 186 keV peak for the metal pin, and Figure 4 (Right) shows that for the compact.

Different responses to fuel diversion can also be seen for different fuel types. For example, the peak of the “25%PD” case almost entirely overlaps with the corresponding base case for the metal fuel, which indicates that the gamma signal is “blind” to the fuel diversion of 25% or less from the inner part of this fuel type. However, the “25%PD” is clearly separated from the base case for the BANR compact. The differences in response to fuel diversion can be attributed to the differences in fuel density, geometry, and dimension (Table 2). For example, in the case of the metal fuel pin, it is unlikely for a photon with a 186 keV energy to travel through several millimeters of the high-density fuel material in it and reach the detector. Therefore, the detector would be somewhat blind to fuel diversions several millimeters beneath the fuel pin’s outer surface. However, in the case of the BANR compact, the same photon can travel a greater distance through the fuel material because the compact’s fuel density is lower than that of the metal fuel pin. Another challenge to diversion detection is that even if the 186 keV peak of the diversion case is clearly separated from the base case, the diversion can be masked by falsely declared lower enrichment; this phenomenon is evident in Figure 4, which shows that the “15.5%” case exhibited a similar peak to that of the “19.75%\_25%PD” case.

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Figure 4. The simulated HPGe gamma peaks around the 186 keV gamma line from (Left) a metal fuel pin; (Right) a BANR compact.

Figure 5 (left) shows the simulated 186 keV peak area rate as a function of the fuel enrichment for the six different fuel elements. Higher 186 keV peak areas are shown for higher enrichments. Lower sensitivity (i.e., smaller slope) of the 186 keV peak area to the enrichment was observed in all the five AR fuel elements compared with the PWR pin, especially for the BANR and USNC compacts; this result is primarily due to their lower overall 235U loadings than those of the other four fuel elements. The lower sensitivity can make it more challenging to use the 186 peak area to discern enrichments for these AR fuel elements than for the PWR pin—especially for the BANR compact, which has significantly lower sensitivity than the other fuel elements.

Figure 5 (right) shows the reduction in the 186 keV peak area rate as a function of the amount of fuel mass diverted for the six different fuel elements. The figure shows significant reductions in the peak areas for the KP pebble and the BANR compact in all diversion cases; however, no meaningful reductions in the peak areas were observed for the other four fuel elements for less than 25% fuel diversion, indicating that this technology alone cannot detect diversion at that level for these four fuel elements. The different peak area rate reductions to diversions can be attributed to the differences in both bulk density and areal density among the fuel elements (Table 2). For example, the KP pebble and the BANR compact had the largest reductions to diversions while also having lowest areal densities, whereas the PWR and metal fuel pins had the lowest reductions in peak areas to diversions and they had the highest densities and relatively high areal densities. Although all five AR fuel elements have higher sensitivity to fuel diversion than the PWR fuel pin according to this figure, the sensitivity for some of these AR fuel elements (e.g., the metal fuel pin, the XE pebble, and the USNC compact) to diversions are likely insufficient because the AR fuel elements are expected to be subject to more stringent safeguards requirements, mainly due to their higher enrichments than the PWR fuel pin.

Figure 5. (Left) The simulated 186 keV peak area rate as a function of the fuel enrichment for six different fuel elements; (Right) The reduction in the 186 keV peak area rate as a function of the amount of fuel mass diverted for six different fuel elements.

## NEUTRON DETECTOR MODELING OF FRESH ADVANCED REACTOR FUEL “ASSEMBLIES”

This section documents the work performed to simulate the UNCL-II and FNCL measurements of several AR fuel elements that are equivalent to LWR assemblies, including the BANR graphite fuel blocks, USNC graphite fuel blocks, and metal fuel bundles. Both an AmLi isotopic neutron source and a   
deuterium–deuterium (D–D) neutron generator were used in these simulations because the IAEA has been routinely using AmLi sources for these neutron measurements, and the IAEA has also been exploring the use of D–D neutron generators to mitigate the short-supply of AmLi sources.

### Summary of Fuel “Assembly” Characteristics

Table 3 summarizes the main characteristics of the three AR fuel elements modeled in this part of the work and those of a PWR 17 × 17 assembly. As shown, some characteristics—such as overall dimensions, pellet dimensions, and uranium loading—can vary significantly among these fuel elements. Figure 6 (left) shows the 235U loading per unit length (i.e., linear density) as a function of enrichment of these four fuel elements. At a given enrichment, the PWR assembly has higher 235U loading than all the three AR elements. Both the USNC and BANR graphite fuel blocks have lower loading than the other two fuel elements. The differences in 235U will cause different responses in the neutron detectors. The middle and right diagrams shown in Figure 6 compare the cross-sectional dimension of a metal fuel bundle and a BANR graphite fuel block with the PWR   
17 × 17 assembly, respectively. As shown, the metal bundle is significantly smaller than the PWR assembly, whereas the graphite block is significantly larger than the PWR assembly, which can cause compatibility issues if these AR elements are measured with existing neutron detectors.

TABLE 3. COMPARISON OF MAIN CHARACTERISTICS BETWEEN THREE AR FUEL ELEMENTS AND A TYPICAL PWR ASSEMBLY.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | Metal Fuel Bundlea | BANR Graphite Fuel Block | USNC Graphite Fuel Block | PWR 17 × 17 Assembly |
| Fuel form | U-10Zr alloy | UCO kernels in carbon coatings embedded in graphite matrix and then in graphite holes. | UCO kernels in carbon coatings embedded in SiC matrix and then in graphite holes. | UO2 ceramic |
| Fuel density (g/cc) | 15.8 | 10.4 | 10.4 | 10.4 |
| Overall width (cm) | 11.2  (flat-to-flat) | 36  (flat-to-flat) | 36  (flat-to-flat) | 21.4 |
| No. of rods | 217 | 216 | 54 | 264 |
| Pellet radius (cm) | 0.23 | 0.615 | 0.92 | 0.41 |
| Rod pitch (cm) | 0.74 | 1.88 | 3.84 | 1.26 |
| U loading (g/cm) | 510 | 114.3  (40% PF) | 78.4  (60% PF) | 1295 |
| Nominal enrichment (wt% 235U) | 19.75 | 19.75 | 19.75 | 3 to 4.95 |
| 235U (g/cm) | 101 | 23 | 15 | 39 to 64 |

aNote: A generic metal fuel bundle was modeled in this work because specific fuel design information for fast reactors being developed by Terra Power or Oklo Inc. is not publicly available.

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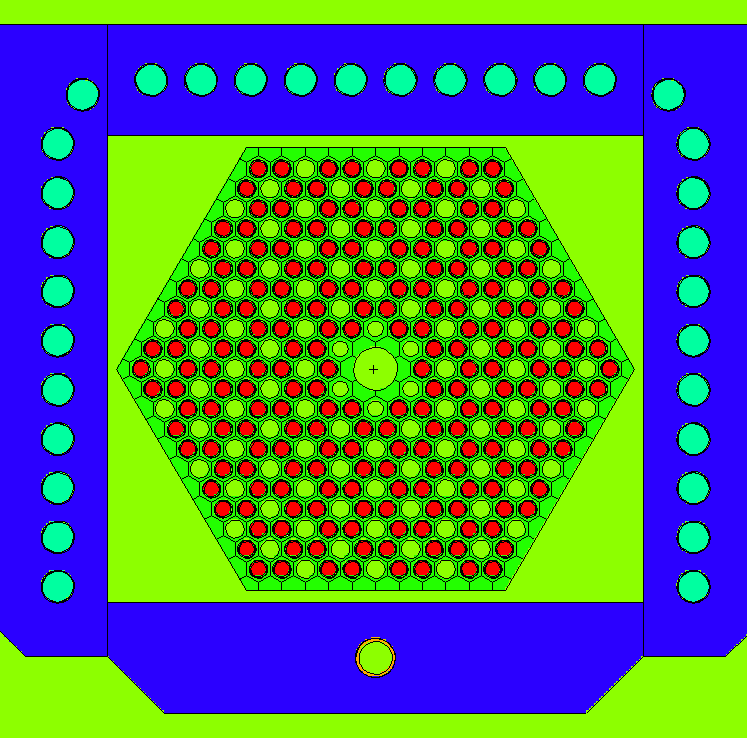
Figure 6. (Left) The 235U loading per unit length in the AR fuel elements compared to that of a PWR assembly; comparison of the overall dimensions: (middle) between a metal fuel bundle and a PWR assembly, (right) between a BANR graphite fuel block and a PWR assembly.

### Modeling Results of UNCL and FNCL

The UNCL has been the IAEA’s main instrument to verify the fissile content (i.e., amount of 235U) in a fresh LWR fuel assembly for safeguards verifications. An AmLi neutron source is typically used in an UNCL to induce fissions in the assembly, and the coincident neutrons from the fissions are detected by the 3He tubes in the instrument. To reduce the impact of burnable poisons (e.g., Gd) in the assembly on the coincident neutron counts, the IAEA has recently tested and approved the use of the FNCL to verify fresh LWR assemblies. The FNCL uses 12 panels of liquid scintillators to detect fast neutrons from the induced fissions in the assembly generated by two AmLi sources or a D–D neutron generator. The UNCL employed in this study was based on UNCL-II [2]. Both UNCL and FNCL were simulated with two AmLi sources (total strength of 1 × 105 n/s) [2] or a D–D neutron generator (total strength of 2 × 106 n/s) [5, 6] in this work for all fuel “assembly” types listed in Table 3.

As an example, Figure 7 shows four MCNP models for a BANR graphite fuel block. Both UNCL-II and FNCL were enlarged to accommodate the larger overall dimensions of the BANR block compared with those of a PWR assembly. Given that the AR fuel “assemblies” modeled in this work do not contain burnable poisons, the thermal mode (no Cadmium) of UNCL-II was simulated in this work. The simulations were carried out using MCNP 6.2 [8]. UNCL uses a pre-delay of 4.5 μs and a coincidence gate width of 64 μs. Unlike the 3He tubes of UNCL-II, the liquid scintillators of FNCL are sensitive to fast neutrons, and the signal processing of liquid scintillators is three orders of magnitude faster [5]. The liquid scintillators are positioned in the three banks surrounding the fuel assembly, and the fourth bank contains the neutron source, as illustrated in Figure 7. The FNCL has cadmium sheets built in with its scintillators, and they cannot be easily removed; thus, FNCL is usually operated in a fast mode, which is also the case for this work. The FNCL measurements were simulated using MCNPX-POLIMI [9] with a gate width of 60 ns.

Figure 8 (Left) summarizes the doubles rates of a BANR graphite fuel block, as a function of 235U linear density of the block, from both UNCL-II and FNCL. Both AmLi neutron sources and a D–D neutron generator were used in these simulations. For UNCL-II, the doubles rates with AmLi sources are significantly higher than those with a D–D neutron generator; for FNCL, the doubles rates were much higher with a D–D neutron generator than they were with the AmLi sources. Given that an AmLi source has a softer neutron energy spectrum than that of D–D neutron generators, these results can be attributed to UNCL-II’s higher sensitivity to thermal neutrons than fast neutrons, whereas FNCL is more sensitive to fast neutrons. Figure 8 (Center) summarizes the UNCL-II doubles rates of four different “assembly” types. The results show that all the three AR fuel types have lower double rates than that of a PWR assembly, especially for the two graphite block types, which means that significantly longer measurement time will be required for these blocks to reach the same counting statistics as a PWR assembly. Figure 8 (Right) summarizes the FNCL doubles rates of the four different “assembly” types. The results are similar as those for UNCL-II: the three AR fuel types have lower double rates than that of a PWR assembly.

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Fuel block

Liquid scintillator panel

D-D neutron generator

AmLi

AmLi

D-D neutron generator

He-3 tube

Figure 7. MCNP models of a BANR graphite block. (Left) UNCL-II with AmLi sources; (Center-left) UNCL-II with a D–D neutron generator; (Center-right) FNCL with AmLi sources; (Right) FNCL with a D–D neutron generator.

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diagram

Description automatically generated](data:image/png;base64,iVBORw0KGgoAAAANSUhEUgAAGSAAABM7CAYAAACZ5vSxAAAAAXNSR0IArs4c6QAAAARnQU1BAACxjwv8YQUAAAAJcEhZcwAAXEYAAFxGARSUQ0EAAP+lSURBVHhe7N2NbutWsq3RACQEgoTeud+c19xp9ekrzXT5h6Ss0hjAB+fkBNtSlqsXhQCuvwAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAB+p+uyrMu8rPM0r/NlWsdx/GhYh+HWX+vHP1b3n3/+oz9/xkeXjz/z48/d/vxluW7/HD/w91lt/06ndbo7p4//9z/3n7P5+1ym7aydye6cDwAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAcLg/CxKm+c9yhHIpwkFt33ccp3WaLFiobOf1ZynMtpwi/Lvcqz+LLy7bohjn8RXOBwAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAOMUy/3vhSFhs8Dsa1mGc1nletv/77V0//j3Ml2ee1+08LLtInA8AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAHCK65+lI8MvXjryz73rcoVlGtdhyP9OntYwrOO0rMti2YXzAQAAAAAAAAAAAAAAAAAAAAAAAAAAAAAATrFM0zr+tiUJ3+3fyxU+/rqt67Ks82V8gUUxH2dxmd9u0YXzAQAAAAAAAAAAAAAAAAAAAAAAAAAAAAAATtNq8chDPReRLNMrLLa47++zeIdFF84HAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA4xXWe12kc7pYQNG0Y13l+/cUK25m9/LKYJmeROB8AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAOA0yzSuQ1o+0LzhsmxfX1K3M3vls0icDwAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAcIrrsqzzODwsG3irhmldluv21y+h9Zm92FkkzgcAAAAAAAAAAAAAAAAAAAAAAAAAAAAAADjNtihhGsKSgXdsGNf5BRYrXJd5Hduf2cdZzK+55ML5AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAp7F8JPTLl5Bc53kd0+tu2bBOL7bkwvkAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAACnsXzkfzRM6/ILl5Bc52kd0utt3essuXA+AAAAAAAAAAAAAAAAAAAAAAAAAAAAAADAqZbLcLdIQP9f47x9/TWu87yO6XW+Rb9/yYXzsYQEAAAAAAAAAAAAAAAAAAAAAAAAAAAAAABOdZ3GuwUCSo3T71iqcF3eebnFrXGdl9+55ML5bP3e8wEAAAAAAAAAAAAAAAAAAAAAAAAAAAAAgHauy7JOQ1ogoMeev1TBef1Xw7Quv2zJhfP5r37h+QAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAQEvLZXhcHKB/bLgs29encV53jfP29ddwPnf9svMBAAAAAAAAAAAAAAAAAAAAAAAAAAAAAIB2rsu8jmlpgP5H4zov1+2vT3edxrvXoq1nL4W5cT6533I+AAAAAAAAAAAAAAAAAAAAAAAAAAAAAADQkoUJ3+sZCxUsi/lfDes0P2cpzI3z+V89/3wAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAKCl67Ks05CWBZzdsI7jtM7Tsi5zXuyx/f1lmtfpMq5D/DNObpjWZTl3ocI8hteh/+sJZ/LfnE/Rk88HAAAAAAAAAAAAAAAAAAAAAAAAAAAAAABaus7TU5d5DMO4zvP3FhJc53mdxuHhzzyvYZ2++dq/4zqNd9//5IZhHS/zx3ktD0sktkU224KY+TKt48c/9/G3ntY4PWfBhfP5XM86HwAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAaOt5SxOGdZqW7a9/bJmet0RluOzzHirbAolpyK/h6IZx+vKSmO31zuPwpHMZ1/luAcfRnM9XOv98AAAAAAAAAAAAAAAAAAAAAAAAAAAAAACgtXlMCwKObvzywoTKdZ7XMX6vgxvn7evhlsvw+L0P7+dLYv6cyxMWc5y1GObG+Xyts88HAAAAAAAAAAAAAAAAAAAAAAAAAAAAAADaui7LOp2+fGBYp52Xj9xc52kd4vc8sGFal+WY93NzXZ6wXGXYb0nMc37OPl7/wedy43y+03nnAwAAAAAAAAAAAAAAAAAAAAAAAAA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AAAAAAAAAAAAAAAAAAAAIGNmtDB9pmVDl4DKApBhhvteOEOb7iNM06gf2rIrrwBF7u4+Bt0d9xq331KRXjq9hnJY5IGQ+Az3LzhVwdrGHXTtCP2MASfmKOmcaQPKz8OtToZoeQNLIWtTyNeY5IWtIh2HaXfcd6+d167uU7geQlA7n7/C+v8frvJ479OS/Vs0+2wCS/tevexhA8jdR34ll/K4XAAAAAAAAAAAAAAAAAAAAPhEwUrqGZTpoGGwvhCoHlwEkxQjzvWYAyfcMJduxKq8D8QFV9Wr4cm0NIIkqA0iORK8cWMP6rDlr6ln2rICziz3smgEk6q8VOZzAAJKfHeFeb304Rvw+9Fv5ruHIYt7v9Hm+39bjecz+vP+tvr4T+6j3AP/S/ceRQ+T15b9XzfvDAJL+1697GEDyNyH3TIL7BAAAAAAAAAAAAAAAAAAAAO4iYKRQCYTtglDl4DKApBhhvtcMIPmZoWQ71SHDvCvUjetqAElU9RlQym165YA6nzPbDvcuTc+yUx2yZ3FmuVUGkLRTP4WP12AAye96751aH0CS/vNp4B5nP1H7Zc/DGPp4Xzasn9HPa2/4r3PHYPby67Z3Wj0O6ClZBpDU1fP6dS8DSO4X1Su1fgYCAAAAAAAAAAAAAAAAAADggPoI34mpLfAvOpCCMoQqB5cBJMUI8712hDDfZwkc26GC1oGuP8dvrulRn3HrPTXplevVYMDlj/QsO1RAz2IPu3aEfiYqJLS3yhB6agDJfXoenNVD+G74ffxD9TwIgvuE9EqNrK2Pep2nZbj1626h1jPidMcZMbzH3nMASelg/s7v9784TQ0/GzuWASR19bx+3csAkvvF7OnDXXsxAAAAAAAAAAAAAAAAAAAApLP9Qf1eA9H2qWEZp/aD1vhHqHJwGUBSjDDfawaQ3G8LHNMPFKrAdaDHYPZt6Nv615sMIIkqA0iORK+8d63nyxfDLf9Cz1KwAnoWe9g1A0jU75XnXaQBJPfr9b7vYQBJ3mEEzllE9QX933vnNbmxd2bb+7B7z4k9DzEo/Wsz6OmzFp+NvcsAkroMIFmfQwNI7hZyvzR0BgUAAAAAAAAAAAAAAAAAAIArW8DI/DImDd7KU38J/KEdQpWDywCSYoT5XjvqcIJHnfsBgWPPV3AgUfxaUK5+C7c96jNuvacmvfI+NYzTMs8GWz5Kz1KoAnoWe9i1I/Qz52BjA0geq2G9Z+c896wBJH936uydexcDSLKuSQ3e3+wjYq09ylCG09TAmrzu/dMfB4/1uj+X75O9z/qOQZ//ygCSusLfERhAslYba2NUD3+UHgkAAAAAAAAAAAAAAAAAAIDOvc7zMgnxvK5kYX+UJVQ5uAwgKUaY77WjDid4ln7gwXoLCMwwrKyJQMUfa1imO3qvoz7j1ntq0iuXqmEZX7ahI56dkvQsD1Zgz2IPu3aEfsYAkkdq2zfyDUI2gOQxPe1XPQwg2cQHPX+t+87AHMPrPNV/p3OgATjnYYYph0M9tven6LP2GkBS+lk40H3+iLzPRt0ygKQuA0jWZ88AkruE9EcJ7g8AAAAAAAAAAAAAAAAAAAAoagtFGwchnu+hnOt/pmNClYPLAJJihPleM4DkOfqB32tINHTkq8vnd/vnTl3rvnBvQL8BJFFlAMmR6JUfrHX/HMcp7R7RGz3L75WlZ7GHXTOARH2tYd0/sg6sMoDkOT0MIulmAEm2dUm4MR/E3J/HG4KTZ9jCc0PHMqxne+0Npc8Ovexhe8vzbMSUASR1GUCyPnMGkNwl4l5p+ftdAAAAAAAAAAAAAAAAAAAA+FEPoWiP1BbMOc+CaI5CqHJwGUBSjDDfawaQlHHUfuB2XQLlW+kT2gqMW6/tHwe/GUASVQaQHIle+bca1vPj+7CReTk5R4bSs3ysnD2LPezaUfqZrS89TetauT6jRw0z/q0yDx55ZwBJGe/PQ4sDI3sKb4/fk/6VUHy+iggjP/J9GLEmvw8IXP/zUzL0knvcO+UHqxxvyM6zLv3KcQaRRPzeAANIEvRjBpCslf9df8xe5zsQAAAAAAAAAAAAAAAAAAAADuC/8OoGQ9Hur2EZX+bwkAnqE6ocXAaQFCPM99pRwnxrOUY/8LWGZRgvgYAt9wjZA9mHde185Poe9Rm33lOTXvkyYGTbC8bzfjAv87YnGDSSmp4l7xptD7t21H7mEmi89ahHe1a/1vbsbgOs2uitDCDZR0vPQk8DCvL0uc5XXNv2ybLDF+6oBCHs0S79ybSe/fboWbc9fxtcWXYdfZ2n8AERe/SSxX9d7u+nnOZ1zxzyvlt+uN4GAUXdGwaQJHhHYADJWvl7UYPZAAAAAAAAAAAAAAAAAAAAoILX+S3I88YfxG+vtqEj0zI3EvLHPoQqB5cBJMUI87121DDfGvrqBz7UOWT+EgbYYyhdrkEkb2HLT1znoz7j1ntqarlXPg8OuarLIJH/6mUbKPJe69q/7m+Gi/RFz5KLPeyaM8s/W7Dx/HIJ/e7umf1S2/M7N7jfGEBSx7Z3bUNJLs/D1rN86GVuXZeK1VsQb/g9vdVB7mv+LiJsu9f3mI96H5i2nSf+rcW3r92l3v+ey3nzPMByW9N37D/j++thmXb4jrX0r0uQfBn/DelZ7/P1/2yy3gd3rv85nAEkCdYwA0jWyv+uv/6z4vsPAAAAAAAAAAAAAAAAAAAADu6/oJFmggHXn/Mt9KelgE4AyGzrB+YWg8e2QMCtL9jC5w8WNn/+zKLC2Ic8IW8AHIueBdpzHkpyfve49q4NBx1vz/F56JUhyJDK6zyFf69h4APfCRlSZiBOc+IHKZUPad/ObdOPg17+WvsMSeHSq0/nPv3Wdc9R54FAax9+cg9AkyL6dUOrAAAAAAAAAAAAAAAAAAAA4IvLQJL5HGi9BXrGhnet//5zqMi0zNP6cxk4AgBVvM6XfuASPhYfErz9DFto9znwd+sJhI19sn1e773b+n/uUNv1nwwdASAdPQu06fz+8TyY5PL8ngcjJ3iG32v7WcZz/yvoGFoQGt4/TL634Eenl9r7W/lhEuwnZEjN19phHSseNm+trebco2/vmc/9+Y3PYud678Odp6EfeiEAAAAAAAAAAAAAAAAAAABI7Bzq+RYMeAke+RcO+F7r33ZXffzfnIM5z+GcW5jI+s8+/3sEAgBARqe3kO95mt56gUvY93utf8t99eF/cx429vbP2gJ+//UDhl086r8w9v/C4n7/fP77PM6fxSVsefsc1v8fADRHzwJtOz/Da52fs/U5vgwp2erjM7nWref2u/r4v/vveX57H3kOOPYsQ6tep/H6ma9Uw4u1g59FDJhwX7aj+KCOR2qct78WVTps3j0d6+PvEbi8b17rY2994zO7rg9//1tvP50Hd24D/3y+0KuQQVs77GsAAAAAAAAAAAAAAAAAAAAAAAAAAABABa+n0zINN8KHd69hmQxT5w6lhzH8WsO0nE7uzRZUvzduVOnhHuXXZGstQKvqDwq0ZwAAAAAAAAAAAAAAAAAAAAAAAAAAAECzwgaQGPLAnV5P8zLeuod2rHFyb2YXcV/cqtL3SvFfl7UWoEkhPfo4b38FAAAAAAAAAAAAAAAAAAAAAAAAAAAAWvQ6T8twK4B45zLggb84vQxX99CuZWhDeq/TeP25Va9xmQvfJ8V/XcLkAZpUv0cflmnW+wAAAAAAAAAAAAAAAAAAAAAAAAAAAECzqg92OFf50H769nqal/HmvbRXCeHO7PV0Wqbh1udWuXYY7jGPN/49T5RhTwBtKr0f/FoGVgEAAAAAAAAAAAAAAAAAAAAAAAAAAEC7wkL8BRzzgOrDctynacUMTrqu4eW0/bWY8oN2DHsCaJHBawAAAAAAAAAAAAAAAAAAAAAAAAAAAMCfvM7TMtwMId6zBBzzGGHcbOrfB99V+fvjdRq//DueLEN0AJpUe9BW6YFaAAAAAAAAAAAAAAAAAAAAAAAAAAAAQGW1w43PNUzL6WSoA48pPqDhl2olkPt1mpbxZe7+2Xo9nZZpuP1ZVa8d1rJ5vPHveaLGyVoL0Jr6g7bGZdabAwAAAAAAAAAAAAAAAAAAAAAAAAAAQLvqhxtfqpWBDuRUfwBFG6Hc/wazDMs49fuMhQxN+qZKD/covyYLlAdoUe29Tm8OAAAAAAAAAAAAAAAAAAAAAAAAAAAAjYsJ8heIz/P+DduoUy0Ec19dk2Fcps4GkWQaPrLHWlb8vh7n7a8ANMSgNQAAAAAAAAAAAAAAAAAAAAAAAAAAAOBPXk/zMt4MId65BOJTgHDua98Or+hkEEmu4SP7DKWZx9v/rkdrnATKA7Sm9pA1ewUAAAAAAAAAAAAAAAAAAAAAAAAAAAA0rnTQ/X01LNMs5JgyXudpGW7eZ/vUHgMnSvo1sHwYlnE6Lafkg1S+Og+bGXMNH9ljIE35oTr5h+YA8Fn1AWvD1FxfAAAAAAAAAAAAAAAAAAAAAAAAAAAAAHxwegkK8xdyTGFVB+kkv39/HUDyXw3LMM7LqYFhQKep7pCZu2u9futfiyo+UMd6C9Cc+/fyMjVO9gkAAAAAAAAAAAAAAAAAAAAAAAAAAABo1qlysPHHEnJMacWHNvxSme/hh0LLh3GZplO6QRWneV7G4cbPm6LGZd7hepUeDDW8nLa/AtCI19NpmWrufTsM0wIAAAAAAAAAAAAAAAAAAAAAAAAAAAAq2EKN57FswP2fapjSDTmgD6UHN/xYie/jhwaQfKxtGMnLHPbr29aobUDSkHbwyKX2GOxRPnR+WKbZegvQkqf38T+VfQIAAAAAAAAAAAAAAAAAAAAAAAAAAACacx488jIuw83w4Xo1TkKO2cfraV7GG/fcXpX1Xi4bXD4swzgt03RaTjsGlL/O2/o0LWPyoSP/lUFKAOyg/CCqn2uPYVoAAAAAAAAAAAAAAAAAAAAAAAAAAABAQad5GxYwL/M0LeM4hA8d+VfjMgvtZ0dlh2/8UkmHUOx9DYZhWNeVcZl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AAElFTkSuQmCC)Chart, line chart

Description automatically generated

FNCL

UNCL-II

Figure 8. (Left) Doubles rate of a BANR fuel block; (Center) UNCL-II doubles rates for four fuel “assembly” types; (Right) FNCL doubles rates for four fuel “assembly” types.

Fuel diversion (or PD) tests were also simulated for these AR fuel types. In each diversion case, a varying number of regular fuel “pins” were replaced with depleted uranium “pins,” and then the doubles rate of the diverted case was compared to that of the base case. Table 4 summarizes the diversion detection results of UNCL-II for all the three AR fuel types and the PWR assembly for a 10 min measurement time, and Table 5 shows the corresponding FNCL results. Note that for a given diversion case when the relative reduction in doubles rate due to fuel diversion is greater than twice the uncertainty (2σ) of the doubles rates, a “YES” is entered in the box under “95% confidence”; otherwise, a “NO” is entered. The boxes under “99.7% confidence” were similarly filled, except that the relative reduction of doubles rates was compared to three times the uncertainty (3σ) of the doubles rates. As shown in Table 4, the performance for UNCL-II in detecting diversions for the AR fuel elements was significantly worse than that for a PWR assembly, which can be attributed to the lower doubles rates for AR fuel elements, shown in Figure 8, due to their lower linear 235U density. A similar conclusion can be drawn for FNCL based on the results shown in Table 5. Compared with the UNCL-II results, the performance of FNCL was better for the PWR and metal fuel assemblies but much worse for the graphite blocks, which is likely because the graphite in the blocks over-moderates (i.e., thermalizes) the neutrons, and FNCL is sensitive only to fast neutrons. Similar study was carried out using a D-D neutron generator and similar conclusions were made to those of an AmLi source. These results show that significant challenges are expected when using these existing technologies to detect diversions in these AR fuel elements. It is anticipated that increasing the measurement time will increase the capability to detect diversions for the different fuel assembly types. However, this will be the subject of future work.

TABLE 4. ASSESSMENT OF UNCL-II WITH AMLI’S CAPABILITY IN DETECTING DIVERSIONS FOR DIFFERENT FUEL ASSEMBLIES WITHIN 10 MIN MEASUREMENT TIME.

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Mass diverted (%) | PWR Fuel Assembly | | Metal Fuel | | BANR Fuel Block | | USNC Fuel Block | |
| 95% confidence | 99.7% confidence | 95% confidence | 99.7% confidence | 95% confidence | 99.7% confidence | 95% confidence | 99.7% confidence |
| ~ −2 | NO | NO | NO | NO | NO | NO | NO | NO |
| ~ −4 | YES | NO | NO | NO | NO | NO | NO | NO |
| ~ −5 | YES | YES | NO | NO | NO | NO | NO | NO |
| ~ −7 | YES | YES | YES | NO | NO | NO | NO | NO |
| ~ −10 | YES | YES | YES | NO | YES | NO | YES | NO |
| ~ −13 | YES | YES | YES | YES | YES | NO | YES | YES |

TABLE 5. ASSESSMENT OF FNCL WITH AMLI’S CAPABILITY IN DETECTING DIVERSIONS FOR DIFFERENT FUEL ASSEMBLIES WITHIN 10 MIN MEASUREMENT TIME.

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Mass diverted (%)** | **PWR Fuel Assembly** | | **Metal Fuel** | | **BANR Fuel Block** | | **USNC Fuel Block** | |
| **95% confidence** | **99.7% confidence** | **95% confidence** | **99.7% confidence** | **95% confidence** | **99.7% confidence** | **95% confidence** | **99.7% confidence** |
| ~ −2 | YES | NO | NO | NO | NO | NO | NO | NO |
| ~ −4 | YES | YES | NO | NO | NO | NO | NO | NO |
| ~ −5 | YES | YES | YES | YES | NO | NO | NO | NO |
| ~ −7 | YES | YES | YES | YES | NO | NO | NO | NO |
| ~ −10 | YES | YES | YES | YES | NO | NO | NO | NO |
| ~ −13 | YES | YES | YES | YES | NO | NO | NO | NO |

## Summary and conclusions

This work focused on TRISO-based and metallic AR fuel elements, which are representative of 7 of the 10 AR designs supported by DOE’s ARDP. To identify and assess potential technical challenges in safeguards measurements of these fresh AR fuel elements, HPGe gamma measurements were simulated for the pin-level AR fuel elements (e.g., compacts, pebbles, metal fuel pins); UNCL-II and FNCL coincidence neutron measurements were also simulated for the assembly-level AR elements (e.g., graphite blocks, metal fuel bundles). The following conclusions can be drawn based on this work.

Significant challenges were identified in performing gamma detector safeguards measurements of fresh AR fuel elements at the pin level:

* Compared with a PWR fuel pin, the gamma signals of the TRISO compacts have lower sensitivity to enrichments mainly due to the lower 235U loading in the compacts than that in the PWR fuel pin.
* The gamma signal of the XE pebble, USNC compact, and the metal fuel pin are not sensitive to fuel diversion mainly due to their relatively high fuel density and/or areal density in them.

Significant challenges were identified in performing neutron detector safeguards measurements of fresh AR fuels at the assembly level:

* Incompatibilities were found between the AR fuel elements and the existing neutron detectors due to the large differences in dimensions of the AR fuel elements compared with those of LWR assemblies.
* The doubles rates of both UNCL-II and FNCL for AR fuel elements have smaller magnitudes and lower sensitivity to enrichment than those of a PWR assembly, especially for the FNCL results with the BANR and USNC graphite blocks due to the lower 235U linear density in the AR fuel elements than that in the PWR assembly.
* Both UNCL-II and FNCL were found to have poorer performance in detecting fuel diversions in AR fuel elements than in a PWR assembly, especially for the FNCL results of the BANR and USNC graphite blocks due to the graphite over-moderation issue.

## These results suggest that either alternative technology or significant technology development is needed to perform adequate safeguards measurements of some of these AR fuel elements/items—especially the graphite fuel blocks—such as a high-efficiency neutron counter with a strong neutron source. Work is in progress in identifying the safeguards challenges in spent AR fuel elements and the results will be included in the presentation.

ACKNOWLEDGEMENTS

This work was sponsored by the National Nuclear Security Administration of the US Department of Energy, Office of International Nuclear Safeguards, Advanced Reactor International Safeguards Engagement (ARISE) program. We would like to thank Alex Laminack (ORNL) for helping with the FNCL modelling, and Louise Evans, ORNL’s Point of Contact to ARISE, for providing guidance and feedback to this project.

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