Request to provide technical and/or organisational information via WANO

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| **NAME OF REQUESTING PLANT & COMPANY: Electrabel - Tihange** |
| **REQUEST SUBJECT: experience related to cutting control rods** |
| **REQUEST OBJECTIVE:**  we are looking for return of experience on the  Ag release in the SFP water when cutting control rods. |
| **DESCRIPTION OF THE PROBLEM:**  In the framework of our characterisation efforts on activated compounds present in our desactivation pools, we are going to take sample of our used control rods. These control rods are filled with Ag-In-Cd alloy (more details can be found in the document in attach) and will be exposed to water which composition is mentioned in the second attached document.  When taking samples we will at a limited number of positions, open de inox cladding of the AIC so that the AIC will come in direct contact with the water. Potentially this direct contact between water and AIC could lead to the release of silver in the water either in dissovled form Ag+ or small pieces of particulate matter (by the cutting activities). The particulate matter doesn’t concern us too much, as we can filter that off. The release of silver ions Ag+ on the other hand  does concern us.  Therefore we are looking for return of experience (if possible quantified) on the  Ag release from colleagues who have been confronted to similar situations i.e. AIC alloy in direct contact with pool water.  Such a direct contact AIC/water can be the result of :   * A sampling campaign * A control rod cutting campaign (control rods being cut into smaller pieces to be removed from site) * Control rods with damaged cladding being stored in desactivation ponds. |
| **SPECIFIC QUESTIONS:**  Describe any specific questions you have in relation to your subject / information request.   1. Do you have experience with Ag release in the spent fuel pools coming from control rods   where the AIC alloy comes in direct contact with the pool water.   1. What was the cause and what quantities/concentrations of Ag were found. |
| **SUGGESTED ORGANISATION TO RECEIVE THIS REQUEST:**  All PWR plants (all regions) |
| **Replies to be addressed to:**  Name: Alexis VANDERHASSELT  Position: senior project manager  Tel: +32477430217  e-mail: alexis.vanderhasselt@bnl.engie.com |
| **DATE OF REQUEST: 18/11/2021** |
| **NUMBER (added by WANO PC): 2021-004** |

 