



NURESAFE WP1.3 BWR ATWS WITH UNCERTAINTY QUANTIFICATION

Status of KIT contribution to the WP1.3 of NURESAFE

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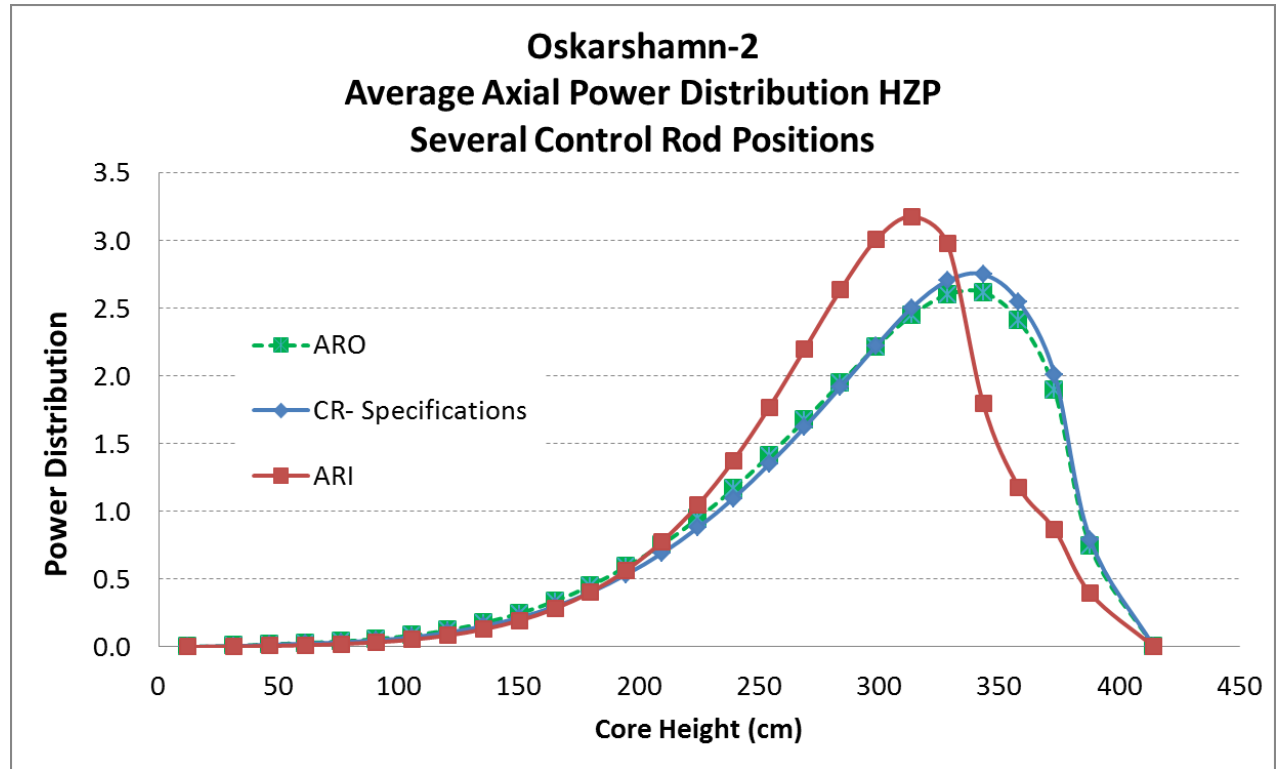
- **Advances since the last meeting.**
- **Testing of the latest XS library with DYN3D.**
- **Conclusion & Outlook**

Advances since the last meeting

- A new XS set was received from KTH the 11.5.2015, just one week before the OECD-NEA Workshop at UPM, Madrid. It was distributed by Kostadin Ivanov and generated in collaboration with Carlo Parisi.
- Testing of XS library with unsuccessful results.
- From PSU we got updated input decks for CTF, but they are not directly usable for coupling issues as the information about the channel coordinates is not present, CARD GROUP 2.
- The coupling scripts have been updated in the svn repository as well as the corresponding input decks.
 - The input decks for O2 have their own private svn repository for the partners who signed the non-disclosure agreement.

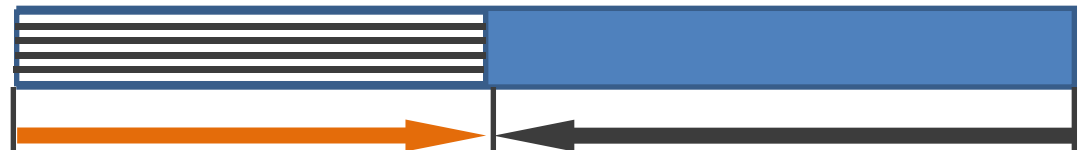
Testing of the XS libraries

Elevation	Keff HZP
0.0 (ARO)	1.054985
CR-Spec.	1.052979
371.2 (ARI)	0.945987



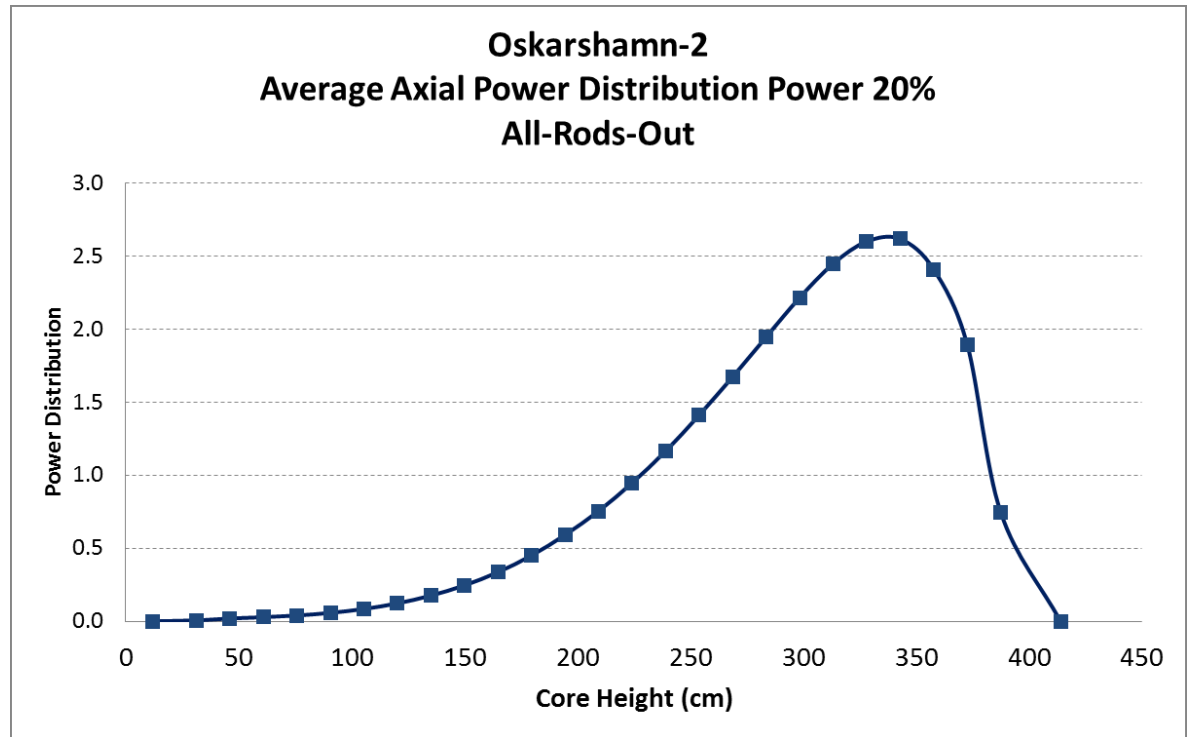
Bottom of the core

Top of the core



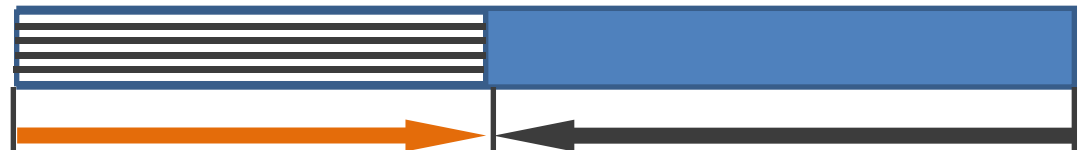
Power %	Keff
20	1.050133
50	NaN
100	NaN

Power > 20%
Calc. Failed



Bottom of the core

Top of the core



- **An action was setup in the last meeting. By the end of March there are two options:**
 - Either continue with O2 work plan if a working XS libraries are delivered. NOT AVAILABLE YET
 - Other change to PB Turbine Trip specifications: backup plan already under consideration, input decks were updated to the latest code version as much as possible.
- **No Official decision has been taken yet by the WP leader**



THANKS FOR YOUR ATTENTION