

	Pin #1	Pin #2	Pin #3	Pin #4
Microstructure	High density / low porosity	High density / low porosity	Low density / tailored porosity	Low density / tailored porosity
Power density at EOI (W/cc)	412	542	492	364
Temperature (°C)	990	1370	1180	980
Neutron radiographies at EOI	No crack detected	Cracks detected	Cracks detected	No crack detected
Gamma spectrometry scans	axial distributions of Nb, Ru (non-volatile) : good agreement with calculated production			
estimation of pin #2 Cs release with the assumption of no Cs release for pin #1 and #4	~ no Cs release	~ 60-70% Cs release*	Not evaluated (misalignment)	~ no Cs release*
Puncturing results (uncertainties ~20%, unexpected presence of argon)	100% He release during irradiation (assuming no release during cooling time)			
	17% release Kr	80% release Kr	48% release Kr	15% release Kr
	10% release Xe	87% release Xe	47% release Xe	13% release Xe

Table 7 : Results of NDE on fuel pins after the MARIOS irradiation