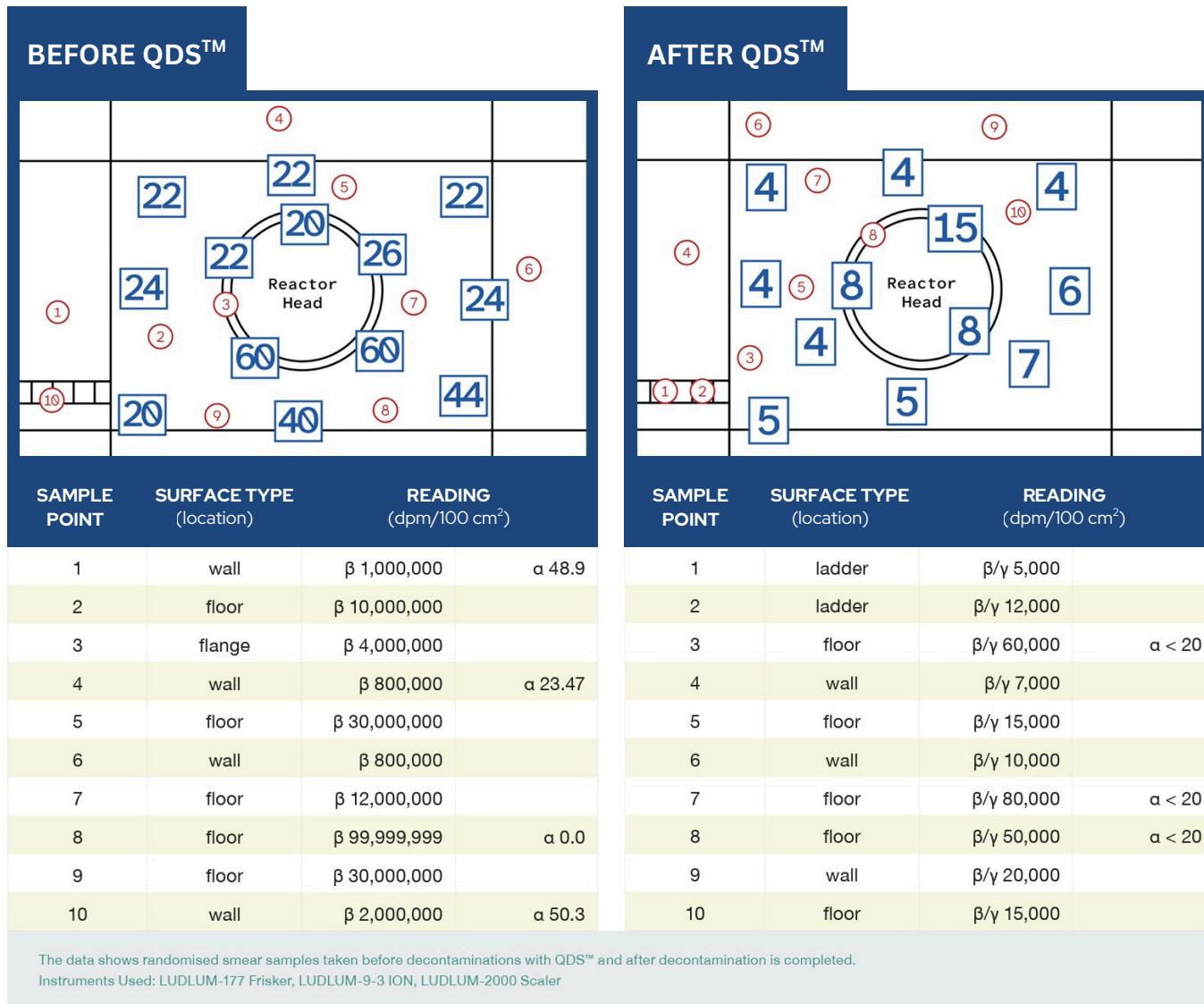




# QUICK DECON SOLUTIONS

## THE PROOF IS IN THE CLEAN!

### Prairie Island Winter 2023 QDS Reactor Cavity Decon Results

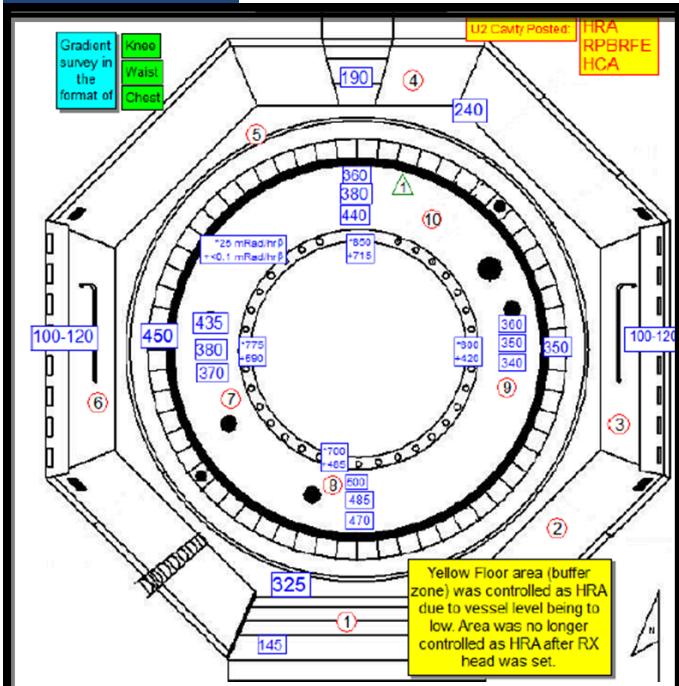


#### KEY IMPACT

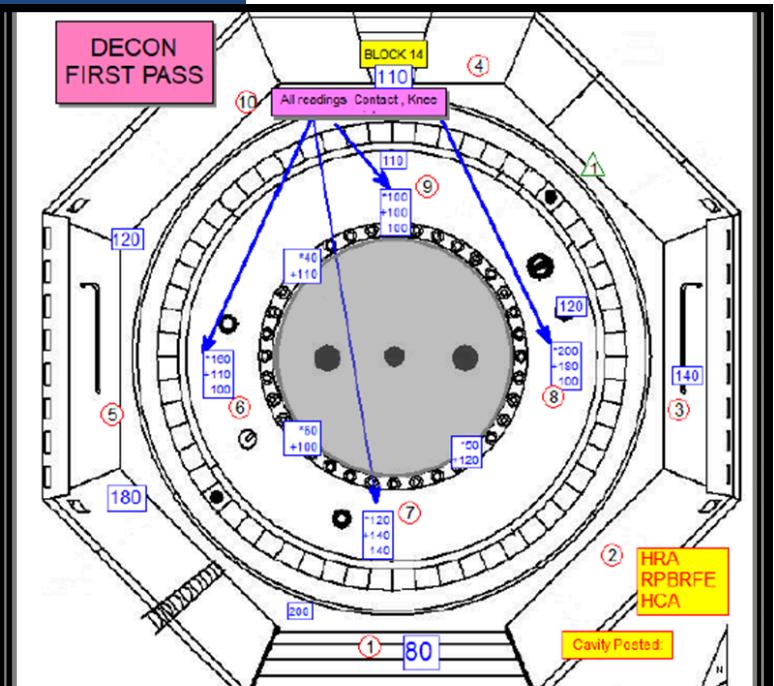
- Levels dropped significantly, with most areas measuring between 3K - 25K dpm/100 cm<sup>2</sup>, reflecting reductions of 80-99.9% across nearly all measurement points.
- The highest reduction was observed on the floor and flange areas, where levels decreased from tens of millions of dpm/ 100 cm<sup>2</sup> to a few thousand.
- Contamination on walls, floors, and reactor surfaces was reduced by more than 99% in critical areas.
- The overall radioactive dose in the environment was substantially lowered, improving both safety and operational conditions.

# Brunswick Spring 2025 QDS Reactor Cavity Decon Results

## Before QDS



## After QDS



### Sample Point

### Reading

#	Type	Inst.	Value/mRad
1	Smear	N/A	$\beta/\gamma$ 40
2	Smear	N/A	$\beta/\gamma$ 8 $\alpha < 20$
3	Smear	N/A	$\beta/\gamma$ 16 $\alpha 113$
4	Smear	N/A	$\beta/\gamma$ 10 $\alpha < 20$
5	Smear	N/A	$\beta/\gamma$ 400
6	Smear	N/A	$\beta/\gamma$ 30
7	Smear	N/A	$\beta/\gamma$ 3000
8	Smear	N/A	$\beta/\gamma$ 7000
9	Smear	N/A	$\beta/\gamma$ 3000
10	Smear	N/A	$\beta/\gamma$ 5000

### Sample Point

### Reading

#	Type	Inst.	Value	Units
1	Smear	N/A	$\beta/\gamma$ 120K	DPM/100 cm <sup>2</sup>
2	Smear	N/A	$\beta/\gamma$ 100K	DPM/100 cm <sup>2</sup>
3	Smear	N/A	$\beta/\gamma$ 60K	DPM/100 cm <sup>2</sup>
4	Smear	N/A	$\beta/\gamma$ 20	mRad/hr/smear
5	Smear	N/A	$\beta/\gamma$ 40K	DPM/100 cm <sup>2</sup>
6	Smear	N/A	$\beta/\gamma$ 90 $\alpha 45$	mRad/hr/smear DPM/100 cm <sup>2</sup>
7	Smear	N/A	$\beta/\gamma$ 40	mRad/hr/smear
8	Smear	N/A	$\beta/\gamma$ 450K	DPM/100 cm <sup>2</sup>
9	Smear	N/A	$\beta/\gamma$ 40 $\alpha 15$	mRad/hr/smear DPM/100 cm <sup>2</sup>
10	Smear	N/A	$\beta/\gamma$ 450K	mRad/hr/smear
			$\beta/\gamma$ 450K	DPM/100 cm <sup>2</sup>

QDS™ "Approved" for use with reactor:

- Duke - Brunswick (BWR)/Oconee
- Constellation - Braidwood
- Holtec - Palisades
- Palo Verde - 1-3
- PSEG - Hope Creek (BWR)
- Xcel - Prairie Island
- Vistra - South Texas Project (temporary limited approval)

Approved and "Deployed" for cavity decon (All reported Critical Path savings, successful cavity decon results (DF), and Dose savings):

- Duke - Brunswick (BWR)/Oconee
- Constellation - Braidwood
- Holtec - Palisades
- Palo Verde - 1-3
- PSEG - Hope Creek (BWR)
- Xcel - Prairie Island
- Vistra - South Texas Project (temporary limited approval)

Additional sites "Submitted" for Chemistry Approval:

- Energy Northwest - Columbia Station (BWR)
- Constellation - LaSalle (BWR)/Dresden
- Southern Nuclear - Farley/Vogtle 1-4/Hatch (BWR)
- ESJ - Three Mile Island Unit 2 (PWR)
- Crane Clean Energy Center - Three Mile Island Unit 1 (PWR)
- UAE/ENEC - Barakah Units 1-4 (PWR)
- CFE- Laguna Verde (BWR)



Scan for QDS Info

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