



SIRIUS-4 Test Article Sketch

April 2021

Changing the World's Energy Future

Harmon D Veselka



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SIRIUS-4 Test Article Sketch

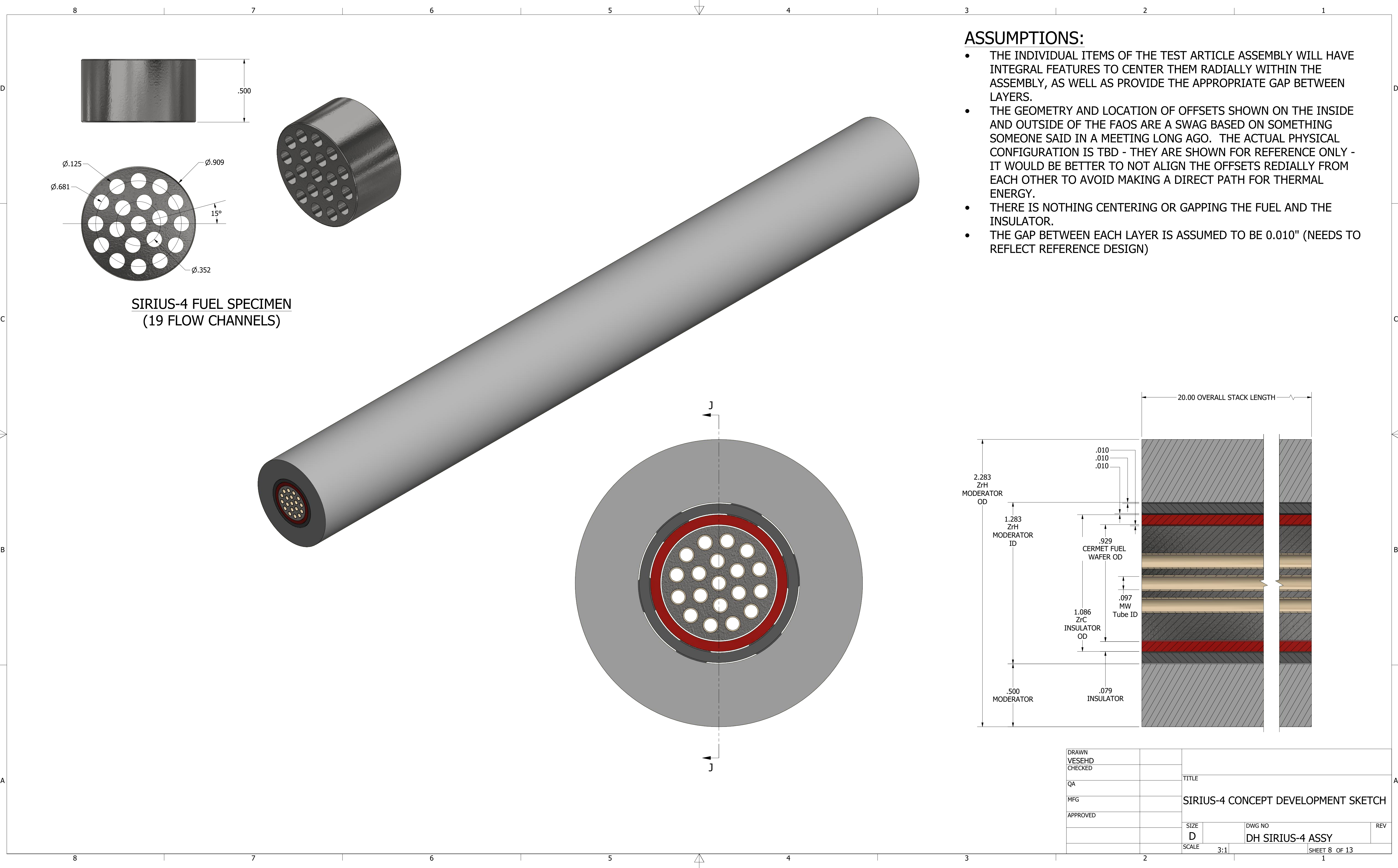
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<http://www.inl.gov>

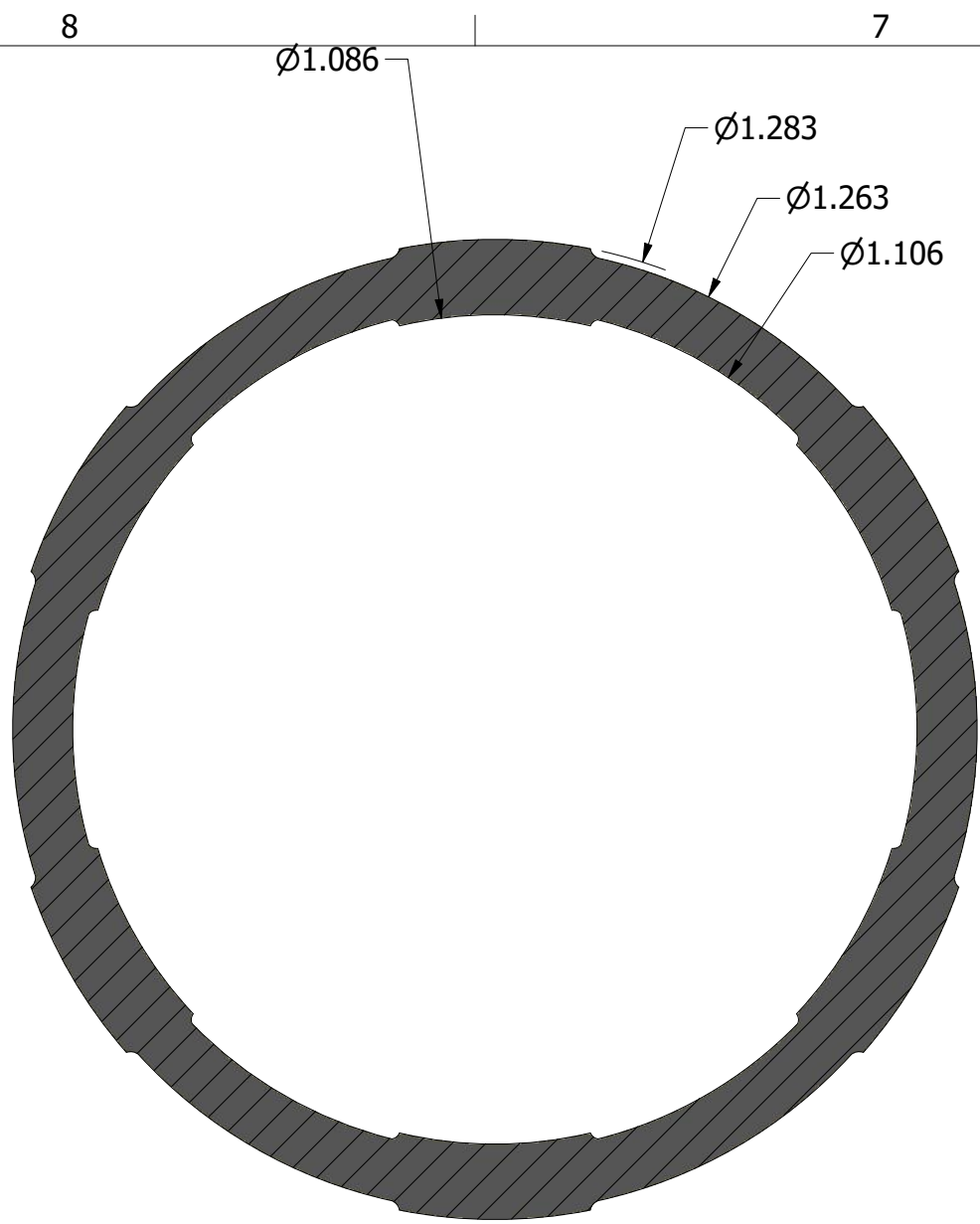
**Prepared for the
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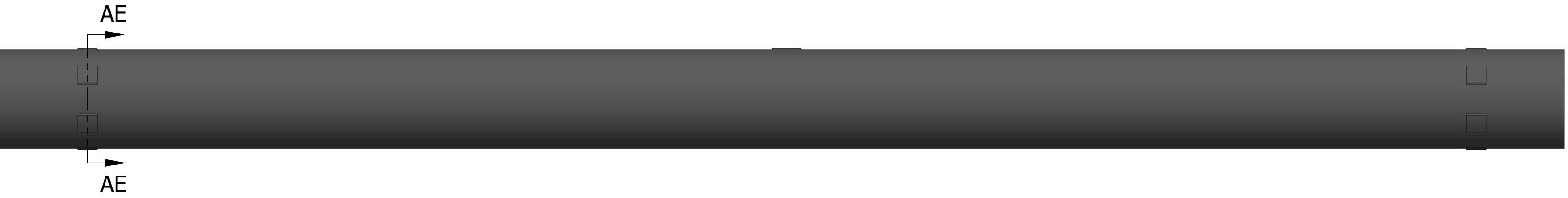
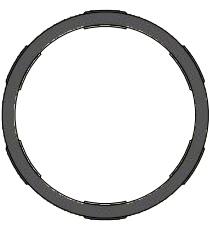
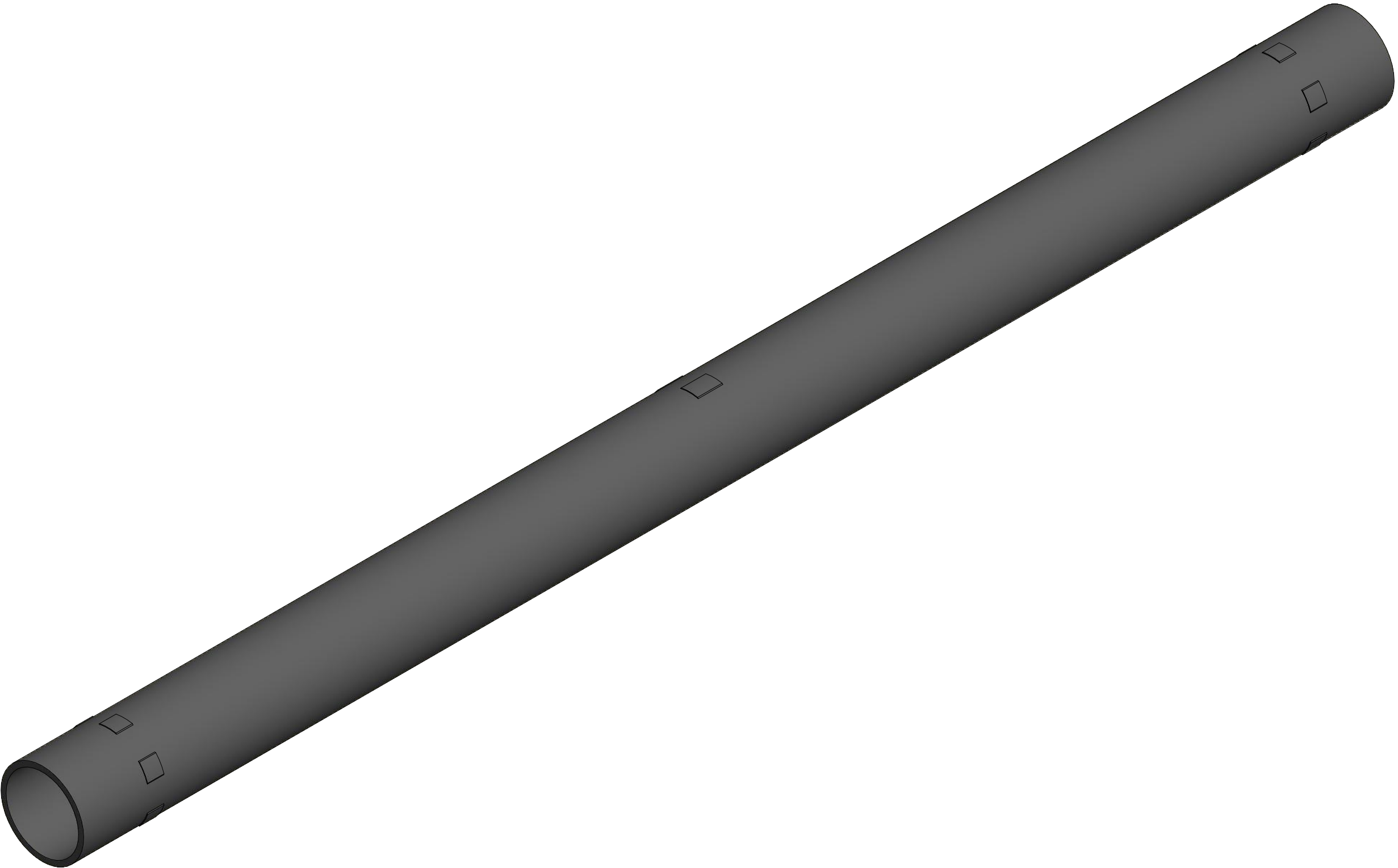
ASSUMPTIONS:

- THE INDIVIDUAL ITEMS OF THE TEST ARTICLE ASSEMBLY WILL HAVE INTEGRAL FEATURES TO CENTER THEM RADially WITHIN THE ASSEMBLY, AS WELL AS PROVIDE THE APPROPRIATE GAP BETWEEN LAYERS.
- THE GEOMETRY AND LOCATION OF OFFSETS SHOWN ON THE INSIDE AND OUTSIDE OF THE FAOS ARE A SWAG BASED ON SOMETHING SOMEONE SAID IN A MEETING LONG AGO. THE ACTUAL PHYSICAL CONFIGURATION IS TBD - THEY ARE SHOWN FOR REFERENCE ONLY - IT WOULD BE BETTER TO NOT ALIGN THE OFFSETS REDially FROM EACH OTHER TO AVOID MAKING A DIRECT PATH FOR THERMAL ENERGY.
- THERE IS NOTHING CENTERING OR GAPPING THE FUEL AND THE INSULATOR.
- THE GAP BETWEEN EACH LAYER IS ASSUMED TO BE 0.010 " (NEEDS TO REFLECT REFERENCE DESIGN)

DRAWN		TITLE		
VESEHD				
CHECKED		SIRIUS-4 CONCEPT DEVELOPMENT SKETCH		
QA				
MFG		SIZE		
APPROVED				
		D	DWG NO	REV
		SCALE	3:1	SHEET 8 OF 13



SECTION AE-AE
SCALE 4



FUEL ASSEMBLY OUTER STRUCTURE (FAOS)

DRAWN		TITLE		
VESEHD				
CHECKED		SIRIUS-4 CONCEPT DEVELOPMENT SKETCH		
QA				
MFG		DH SIRIUS-4 ASSY		
APPROVED				
		SIZE	DWG NO	REV
		D		
		SCALE	.85	SHEET 9 OF 13