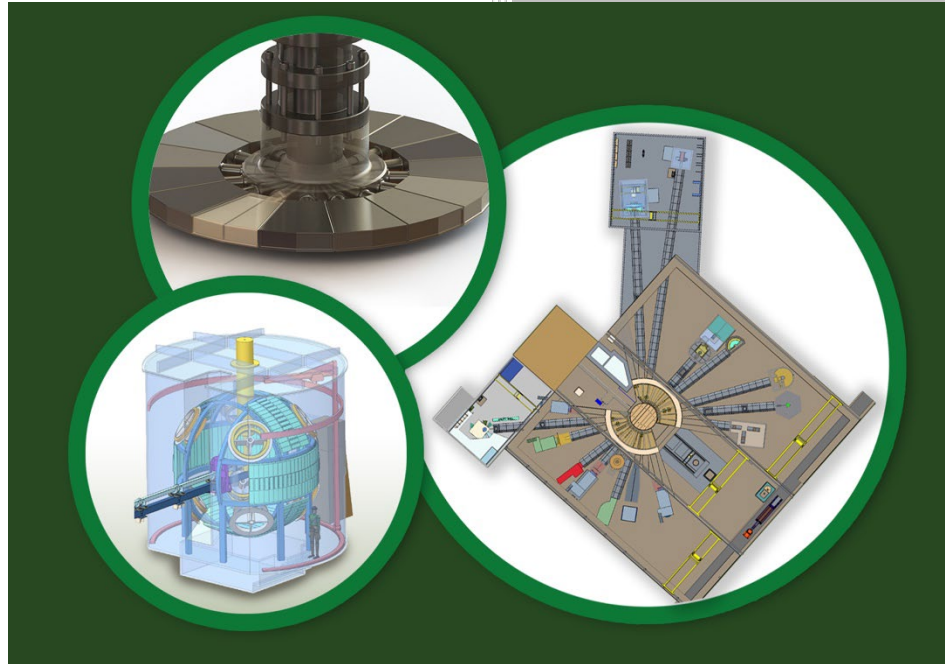


SECOND TARGET STATION (STS) PROJECT

Specification for Tungsten Plate



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SECOND TARGET STATION (STS) PROJECT

SPECIFICATION FOR TUNGSTEN PLATE

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CONTENTS

1. OVERVIEW

The specification enclosed contains the requirements and verification methods for purchasing pure Tungsten in various forms.

2. SCOPE

The latest version of ASTM B777 shall apply with the following modifications and clarifications.

- Test bar locations and orientations shall be taken from the final product in location proposed by the vendor and with written agreement from ORNL.
- Tungsten shall be in the rolled condition (cross-rolled in two dimensions)
- Tungsten shall be Class 4, 97% density (% nominal tungsten weight)
- Tungsten shall be marked and labeled
- Tungsten shall have a purity greater than 99.95% pure.
- Maximum Pore Size: $35\mu\text{m}^2$
- Minimum Mechanical Properties
 - Hardness: 490 kg/mm²
 - Ultimate Strength: 689 MPa
 - 0.2% Offset Yield: 517 MPa
 - Elongation: 2%