



| ITEM | optics/QTY. | NAME                          | MATERIAL                | DESCRIPTION                     | DWG          |
|------|-------------|-------------------------------|-------------------------|---------------------------------|--------------|
| 5    | 8           | HX-SHCS 0.25-20x0.75x0.75-N   | SS - 18-8               | .25-20 X .75 SHCS               | N/A          |
| 4    | 8           | illumination fiber sleeve hjt | ---                     | SUPPLIED BY OTHERS              | N/A          |
| 3    | 4           | optic fiber grommet hjt       | BUNA-N RUBBER           | GROMMET, MCMaster-CARR #9307K14 | N/A          |
| 2    | 1           | connector plate gasket hjt    | 1/16" BUNA-N SHEET. 50A | MCMaster-CARR #86715K279        | 203-HJT-0732 |
| 1    | 1           | optics plate                  | SS - 304L, ASTM A-240   | PLATE, 6.000 DIA X .125 THK     | 203-HJT-0751 |

**THIRD-ANGLE PROJECTION**

UNLESS OTHERWISE NOTED

1. ALL DIMENSIONS ARE IN INCHES
2. INTERPRET DIMENSIONS AND TOLERANCES PER ASME Y14.5M
3. MACHINED FINISH 125 MICRO-INCHES RMS
4. CONCENTRICITY .010 TIR
5. MACHINED ANGLES ±1/2°  
FORMED ANGLES ±1°
6. BREAK SHARP CORNERS AND REMOVE ALL BURRS
7. WHOLE NUMBERS AND FRACTIONS ±1/16
8. X DECIMALS ±.030
9. XX DECIMALS ±.010
10. XXX DECIMALS ±.005

This drawing was prepared by ORNL solely for use in work performed under Department of Energy contract number DE-AC05-00OR22725 and applicable Work for Others Agreements and Cooperative Research and Development Agreements. This drawing is property of ORNL and must be returned upon request.

|     |              |            |
|-----|--------------|------------|
| DES | V GRAVES     | 01/06/2006 |
| DRW | T OQUIN      | 01/06/2006 |
| CHK | P SPAMPINATO | 01/17/2006 |
| ENG | V GRAVES     | 01/06/2006 |
| QA  |              |            |

**oml**  
OAK RIDGE NATIONAL LABORATORY  
operated for the U.S. Department of Energy under contract DE-AC05-00OR22725 Oak Ridge, TN

**NSTB**  
REMOTE SYSTEMS GROUP  
NUCLEAR SCIENCE & TECHNOLOGY DIVISION

**MERIT EXPERIMENT  
SECONDARY CONTAINMENT ASSY  
CONNECTOR PLATE ASSY - OPTICS**

|                          |              |       |        |
|--------------------------|--------------|-------|--------|
| CAD FILE                 | PREV ASSY    | SCALE | SHEET  |
| CONNECTOR PLATE ASSY HJT | 203-HJT-0700 | 1:2   | 1 of 1 |
| SIZE                     | DWG NO.      | REV   |        |
| C                        | 203-HJT-0750 | 0     |        |