NOTES:

⚠️ ALLIGN TWO MARKINGS DURING ASSEMBLY

⚠️ TORQUE .250-28 FASTENERS TO 82 IN-LBS

⚠️ TORQUE .125-44 FASTENERS TO 20 IN-LBS

DETAIL B  SCALE 1:1
NOTES:
[1] MATERIAL: ADDITIVELY MANUFACTURED EOS MARAGING STEEL MS1

⚠️ HOLE PATTERN SHOULD ALIGN TO EXISTING PILOT HOLES
⚠️ TAPPED HOLE IS IN METRIC. HOLE DEPTH AND POSITION ARE IN INCH

REVISIONS

<table>
<thead>
<tr>
<th>REV</th>
<th>LOCATION</th>
<th>NAME</th>
<th>DATE</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td></td>
<td>J TARGONSKI</td>
<td>12-Apr-18</td>
<td>INITIAL RELEASE</td>
</tr>
<tr>
<td>B</td>
<td>(3) SHEET 2 DETAIL E</td>
<td>J TARGONSKI</td>
<td>18-Apr-18</td>
<td>(1) ADDED DATUM H &amp; I. (2) RELAXED TOLERANCES FOR EASIER MACHINING. (3) CHANGED TOTAL RUNOUT TO POSITIONAL TOLERANCE</td>
</tr>
</tbody>
</table>

TILTED 5 DEG BACK FROM PARENT VIEW

B

USC LIQUID PROPULSION LABORATORY

JESSIE_chamber

DRAWN BY: J. TARGONSKI
DATE: 18-APR-2018
REVIEWED BY: M. MORAZZI
DATE: 18-APR-2018

SCALE 1/2

B JESSIE SHEET 1 OF 2
NOTES:
[1] MATERIAL: ISOMOLDED GRAPHITE

KEEP EDGE SHARP

SECTION A-A

\( \varnothing 0.065 \) THRU 1 WALL
TYP 3 PLACES
EQ SPACED
\( +0.005 \) \( \varnothing A \) \( \varnothing B \) \( \varnothing C \)

SECTION B-B

R.025

1.365

R.025

R.025

1.365

SECTION C-C

\( \varnothing 2.127 \) THRU 1 WALL
\( +0.005 \) \( \varnothing A \) \( \varnothing B \) \( \varnothing C \)

\( +0.001 \) \( \varnothing A \rightarrow B \)

PT. A

.698

PT. B

.650

DETAIL D

SCALE 1:1

UNLESS OTHERWISE SPECIFIED
DRAWING INTERPRETED PER
ASME Y14.100-2000
DIMENSIONS INTERPRETED PER
ASME Y14.5-1994
REMOVE BURRS AND BREAK EDGES
.005-015
SURFACE TEXTURE:
TOLERANCES:
DECIMALS:
ANGLES:
X : 0.01
X : 0.1
X : 0.001
X : 0.005

USC LIQUID PROPULSION LABORATORY

DRAWN BY: J. TARGONSKI
DATE: 25-Apr-2018
REVIEWED BY: M. MORRIZI
DATE: 25-Apr-2018

USC Astronautical Engineering Department
844 Downing Way
Los Angeles, CA 90069

SCALE 2:3

SHEET 1 OF 1
NOTES:
[1] MATERIAL: ISOMOLDED GRAPHITE

KEEP EDGE SHARP

DETAIL B
SCALE 1:1

DETAIL C
SCALE 2:1

SECTION A-A
SCALE 1:1

UNLESS OTHERWISE SPECIFIED
DRAWING INTERPRETED PER
ASME Y14.10M-2000
DIMENSIONS INTERPRETED PER
ASME Y14.5-1994

REMOVE BURRS AND BREAK EDGES
0.005-0.15

SURFACE TEXTURE: V

TOLERANCES:
DECIMALS: ANGLES:
X .005 X .1
X .01 X .1
X .005

THIRD ANGLE PROJECTION
ALL DIMENSIONS ARE IN
INCHES UNLESS OTHERWISE SPECIFIED

USC LIQUID PROPULSION LABORATORY

DRAWN BY: J. TARJONSKI
DATE: 25-Apr-2018
REVIEWED BY: M. MORUZZI
DATE: 25-Apr-2018

JESSIE nozzle 1000 psi V1

SIZE
ASSEMBLY
JESSIE

SCALE 1/1

SHEET 1 OF 1
NOTES:
[1] MATERIAL: ADDITIVELY MANUFACTURED EOS MARAGING STEEL MS1

SECTION A-A

UNLESS OTHERWISE SPECIFIED
DRAWING INTERPRETED PER
ASME Y14.100-2000
DIMENSIONS INTERPRETED PER
ASME Y14.5-1994
REMOVE BURRS AND BREAK
EDGES
.005-.015 250
SURFACE TEXTURE:
TOLERANCES:
DECIMALS: ANGLES:
X .05  X .11
X .005  X .11
X .001  X .11

THIRD ANGLE PROJECTION
ALL DIMENSIONS ARE IN
INCHES UNLESS OTHERWISE
SPECIFIED

USC LIQUID PROPULSION LABORATORY

DRAWN BY: J. TARGONSKI
DATE: 24-Apr-2018
REVIEWED BY: M. MORUCCI
DATE: 24-Apr-2018

JESSIE retention ring 1_2

SCALE 3:2

SIZE ASSEMBLY JESSIE SHEET A

1 2 3 4 5 6 7 8
NOTES:
[1] MATERIAL: ADDITIVELY MANUFACTURED EOS MARAGING STEEL MS1