

TELEMARK 272 Single Pocket E-Beam Source Drawings

The current version of this drawing pdf can be found at

<https://telemark.com/electron-beam-sources/single-pocket-sources/>

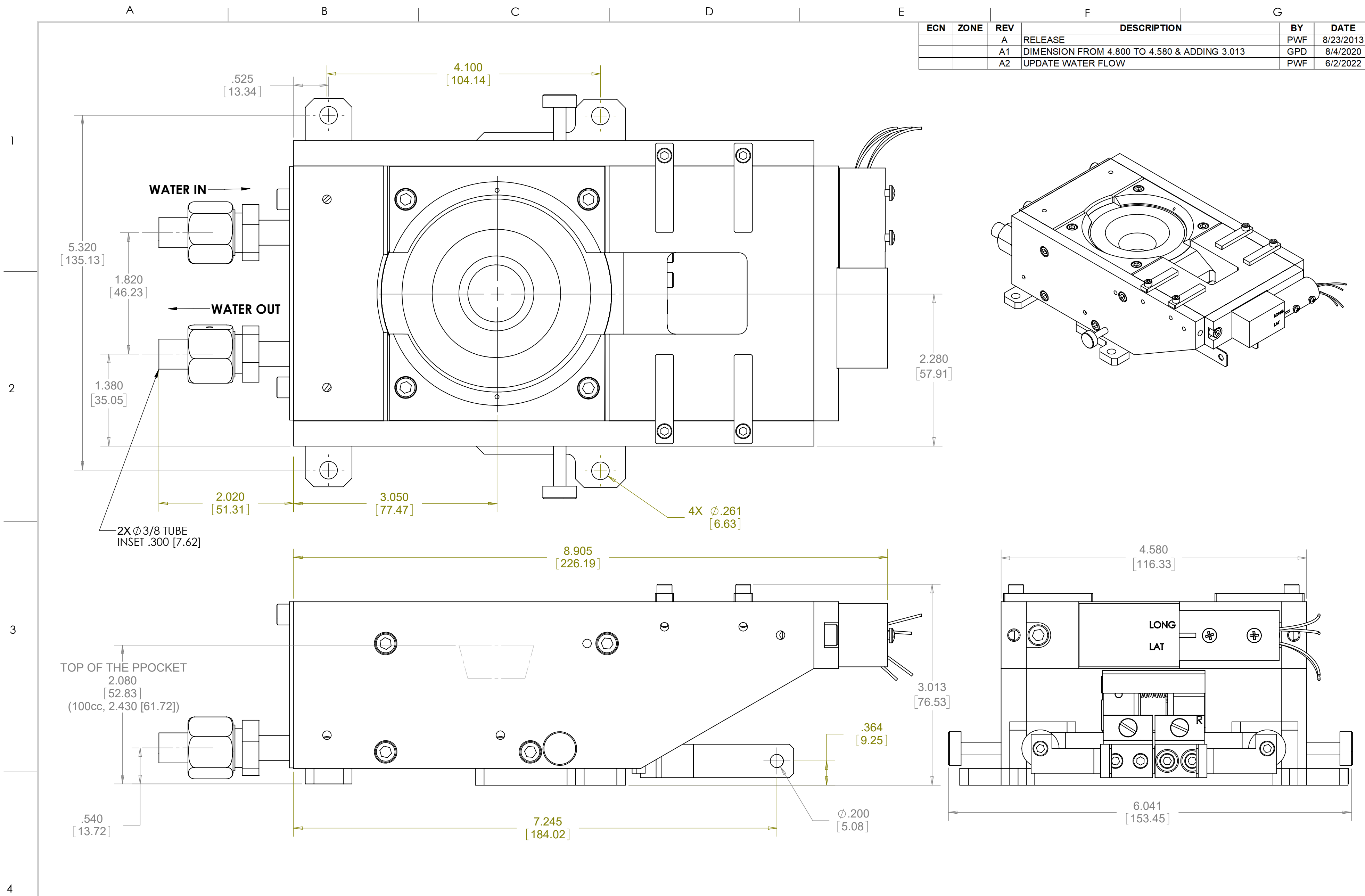
Drawing	Rev.	Description	Page
Reference Dimensions			2
R272-0002	A2	Model 272 E-Beam Source Dimensions	3
Model Assemblies			5
251-99xx-2	B	Model 272-01 EB Source, 7cc Model 272-02 EB Source, 15cc Model 272-03 EB Source, 25cc Model 272-30 EB Source, 30cc Model 272-04 EB Source, 40cc Model 272-05 EB Source, 100cc	6
Common Assemblies			7
253-0150-1	B1	Emitter Assembly	8

TELEMARK

Reference Dimensions

E-Beam Source

ECN	ZONE	REV	DESCRIPTION	BY	DATE
		A	RELEASE	PWF	8/23/2013
		A1	DIMENSION FROM 4.800 TO 4.580 & ADDING 3.013	GPD	8/4/2020
		A2	UPDATE WATER FLOW	PWF	6/2/2022



INCH [MM]

UNLESS OTHERWISE SPECIFIED GLOBAL TOLERANCES		DWG BY	DATE	MATERIAL:	B.O.M	TELEMARK telemark.com
INCHES [mm] .X +/- .03 [0.762] .XX +/- .01 [0.254] .XXX +/- .005 [0.127]		CHECK BY	DATE	FINISH:	SEE NOTES	
ANGLES +/- .5° SURF FINISH 63 RMS		PROJ ENG	DATE	THIRD ANGLE PROJECTION		MODEL 272 EB SOURCE
		MFG ENG	DATE			
		DO NOT SCALE DRAWING		FILE NUMBER - 251-99xx-2		SCALE 1:1
		INITIAL PROJECT -		INITIAL PROJECT -		DWG NO. R272-0002
						SHEET 1 of 2
						REV A2

CONFIDENTIAL. This document contains proprietary data of TELEMARK and is not to be copied or distributed without the prior written consent of TELEMARK. The receipt or possession of the document does not convey any rights to reproduce it, disclose its contents, or to manufacture, use or sell anything incorporating the concepts and details disclosed by it. Such concepts and details are not to be used other than for the benefit of TELEMARK and are not to be disclosed to others without the prior written consent of an officer of TELEMARK.

A B C D E F G

ECN	ZONE	REV	DESCRIPTION	BY	DATE

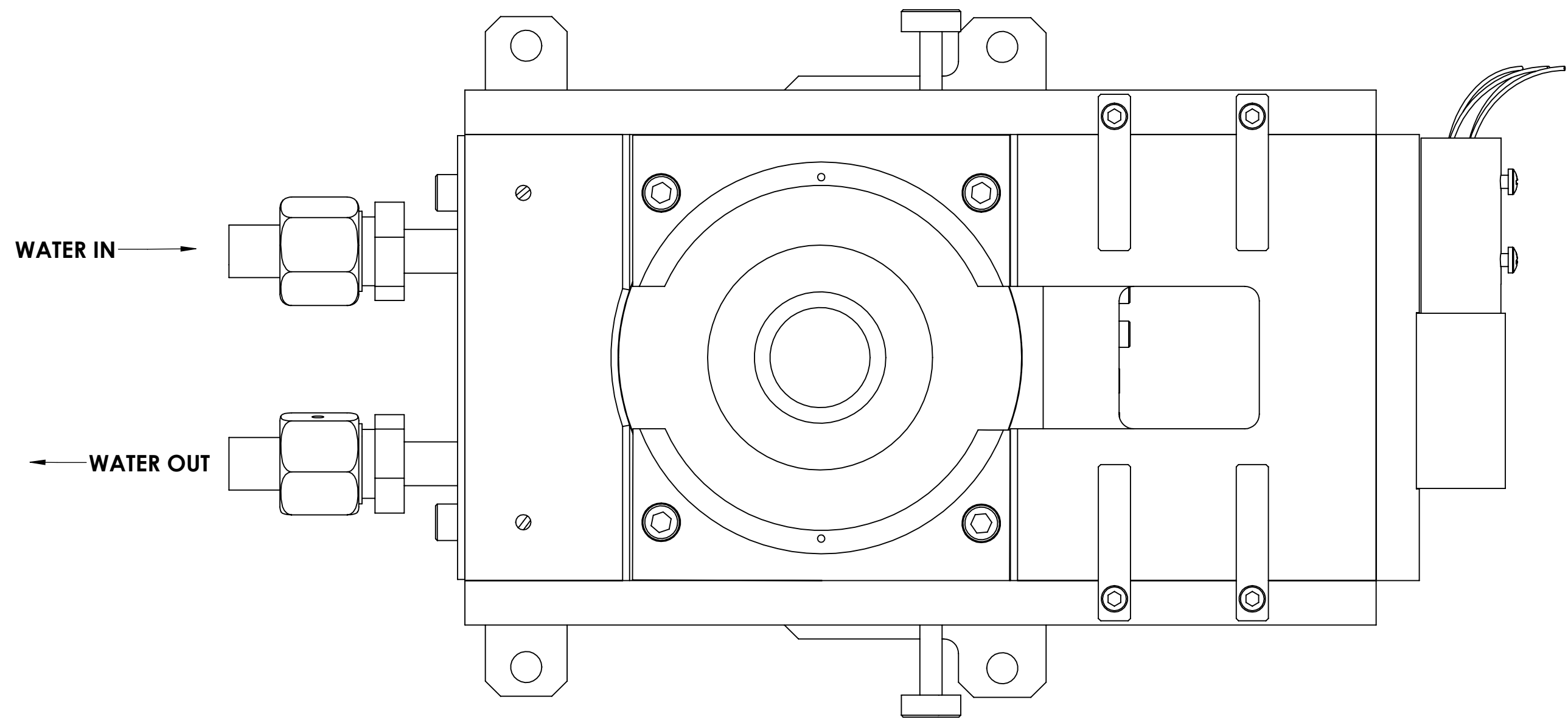
1

2

3

4

MODEL 272 IMPORTANT WATER LINE CONNECTION INFORMATION



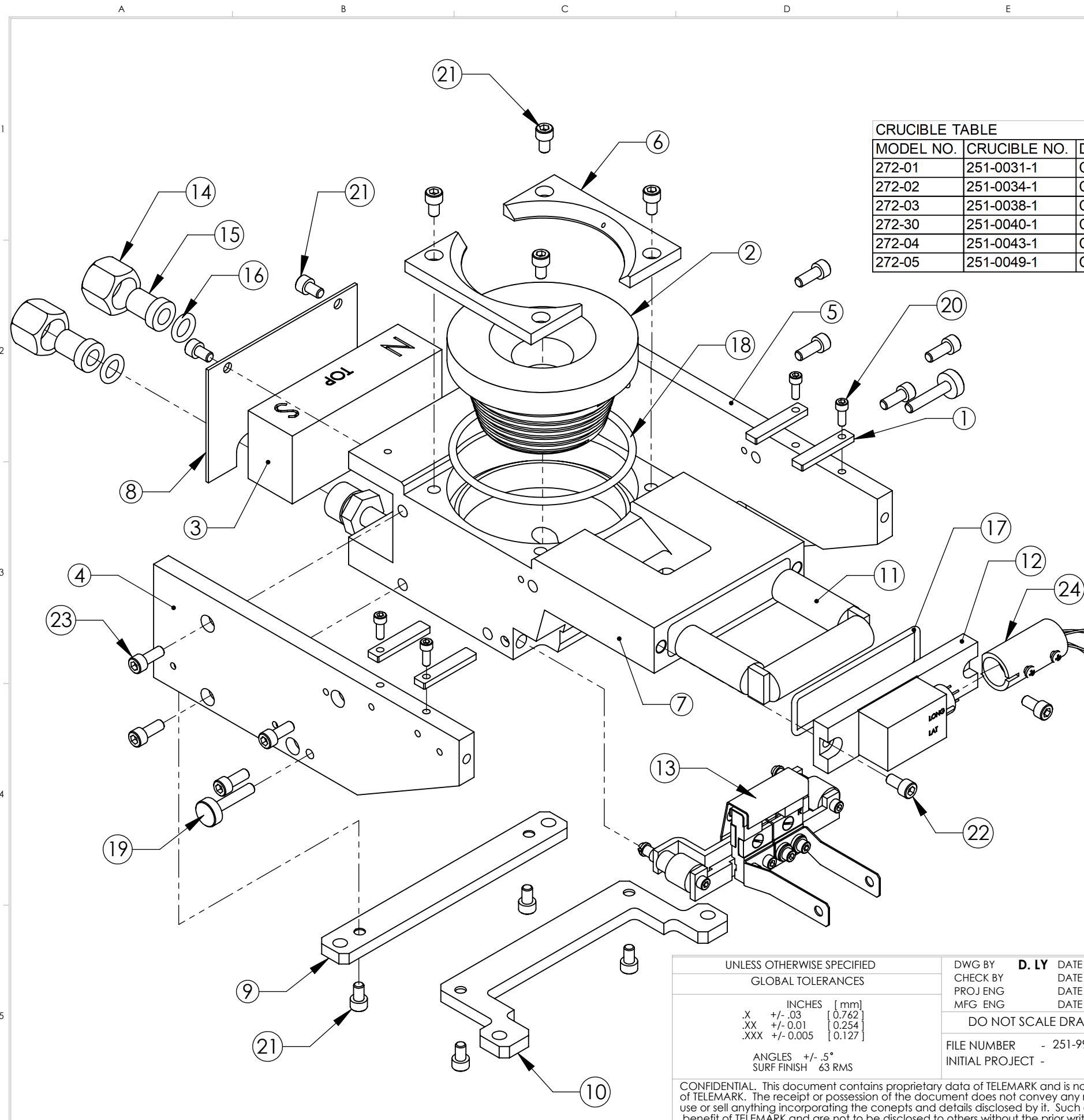
UNLESS OTHERWISE SPECIFIED GLOBAL TOLERANCES		DWG BY	DATE	MATERIAL:	B.O.M	TELEMARK telemark.com
INCHES [mm]		CHECK BY	DATE	FINISH: SEE NOTES		
.X +/- .03 [0.762]		PROJ ENG	DATE	THIRD ANGLE PROJECTION		MODEL 272 EB SOURCE
.XX +/- 0.01 [0.254]		MFG ENG	DATE	DO NOT SCALE DRAWING		
.XXX +/- 0.005 [0.127]		FILE NUMBER - 251-99xx-2		INITIAL PROJECT -		SCALE 1:1
ANGLES +/- .5°		SURF FINISH 63 RMS		CONFIDENTIAL. This document contains proprietary data of TELEMARK and is not to be copied or distributed without the prior written consent of TELEMARK. The receipt or possession of the document does not convey any rights to reproduce it, disclose its contents, or to manufacture, use or sell anything incorporating the concepts and details disclosed by it. Such concepts and details are not to be used other than for the benefit of TELEMARK and are not to be disclosed to others without the prior written consent of an officer of TELEMARK.		DWG NO. R272-0002
						REV A2

SHEET 2 of 2

TELEMARK

Model Assemblies

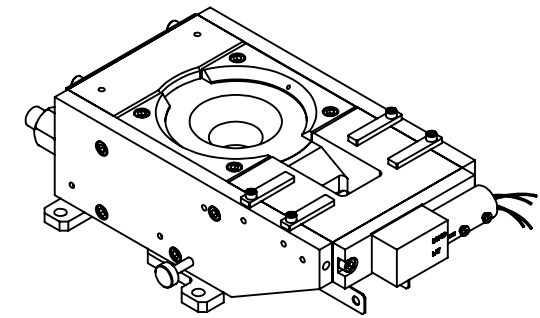
E-Beam Sources



ECN	ZONE	REV	DESCRIPTION	BY	DATE
		A	RELEASE	PWF	9/17/2012
991075		B	P/N FROM 271-6050-6 TO 271-6050-1	GPD	2/2/2022

CRUCIBLE TABLE

MODEL NO.	CRUCIBLE NO.	DESCRIPTION
272-01	251-0031-1	CRUCIBLE, 7CC
272-02	251-0034-1	CRUCIBLE, 15CC
272-03	251-0038-1	CRUCIBLE, 25CC
272-30	251-0040-1	CRUCIBLE, 30CC
272-04	251-0043-1	CRUCIBLE, 40CC
272-05	251-0049-1	CRUCIBLE, 100CC



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	241-0053-3	POLE PIECE	4
2	251-0031-1	CRUCIBLE (SEE TABLE)	1
3	251-0055-1	PERMANENT MAGNET	1
4	251-0058-2	MAGNET ARM, LEFT	1
5	251-0059-2	MAGNET ARM, RIGHT	1
6	251-0077-1	CRUCIBLE CLAMP	2
7	251-0078-1	MAIN BLOCK ASSEMBLY	1
8	251-0084-1	REAR SHIELD	1
9	251-0088-1	MOUNTING STRAP	1
10	251-0088-5	MOUNTING STRAP	1
11	252-0093-1	COIL ASSEMBLY	1
12	252-0100-3	COIL SEAL PLATE ASSEMBLY	1
13	253-0150-1	EMITTER ASSEMBLY	1
14	271-0650-2	WATER FITTING NUT	2
15	271-0651-2	WATER FITTING GLAND	2
16	271-2110-1	O-RING, VITON, ID 3/8", W 3/32"	2
17	271-2140-1	O-RING, VITON, ID 2-1/4", W 3/32"	1
18	271-2235-1	O-RING, VITON, ID 3-1/8', W 1/8"	1
19	251-5008-1	THUMBSCREW, EMITTER	2
20	271-6050-1	VENTED SCREW, #6-32 UNC X 3/8" SHCS	4
21	271-6140-1	VENTED SCREW, #10-32 UNF X 5/16" SST, SHCS	10
22	271-6145-1	VENTED SCREW, #10-32 X 3/8" SST SHCS	2
23	271-6150-1	VENTED SCREW, #10-32 X 1/2" SHCS	8
24	272-0125-2	COIL CONNECTOR ASSEMBLY	1

UNLESS OTHERWISE SPECIFIED	
GLOBAL TOLERANCES	
	INCHES [mm]
.X	+/- .03 [0.762]
.XX	+/- 0.01 [0.254]
.XXX	+/- 0.005 [0.127]
ANGLES +/- .5°	
SURF FINISH 63 RMS	

DWG BY **D. LY** DATE **6/8/2010**
 CHECK BY _____ DATE _____
 PROJ ENG _____ DATE _____
 MFG ENG _____ DATE _____

DO NOT SCALE DRAWING

FILE NUMBER - 251-99xx-2
 INITIAL PROJECT -

MATERIAL: B.O.M

FINISH: SEE NOTES

THIRD ANGLE PROJECTION

TELEMARK telemark.com

MODEL 272
EB SOURCE

CONFIDENTIAL. This document contains proprietary data of TELEMARK and is not to be copied or distributed without the prior written consent of TELEMARK. The receipt or possession of the document does not convey any rights to reproduce it, disclose its contents, or to manufacture, use or sell anything incorporating the concepts and details disclosed by it. Such concepts and details are not to be used other than for the benefit of TELEMARK and are not to be disclosed to others without the prior written consent of an officer of TELEMARK.

B	SCALE 1:2	DWG NO.	REV
	SHEET 1 of 1	251-99xx-2	B

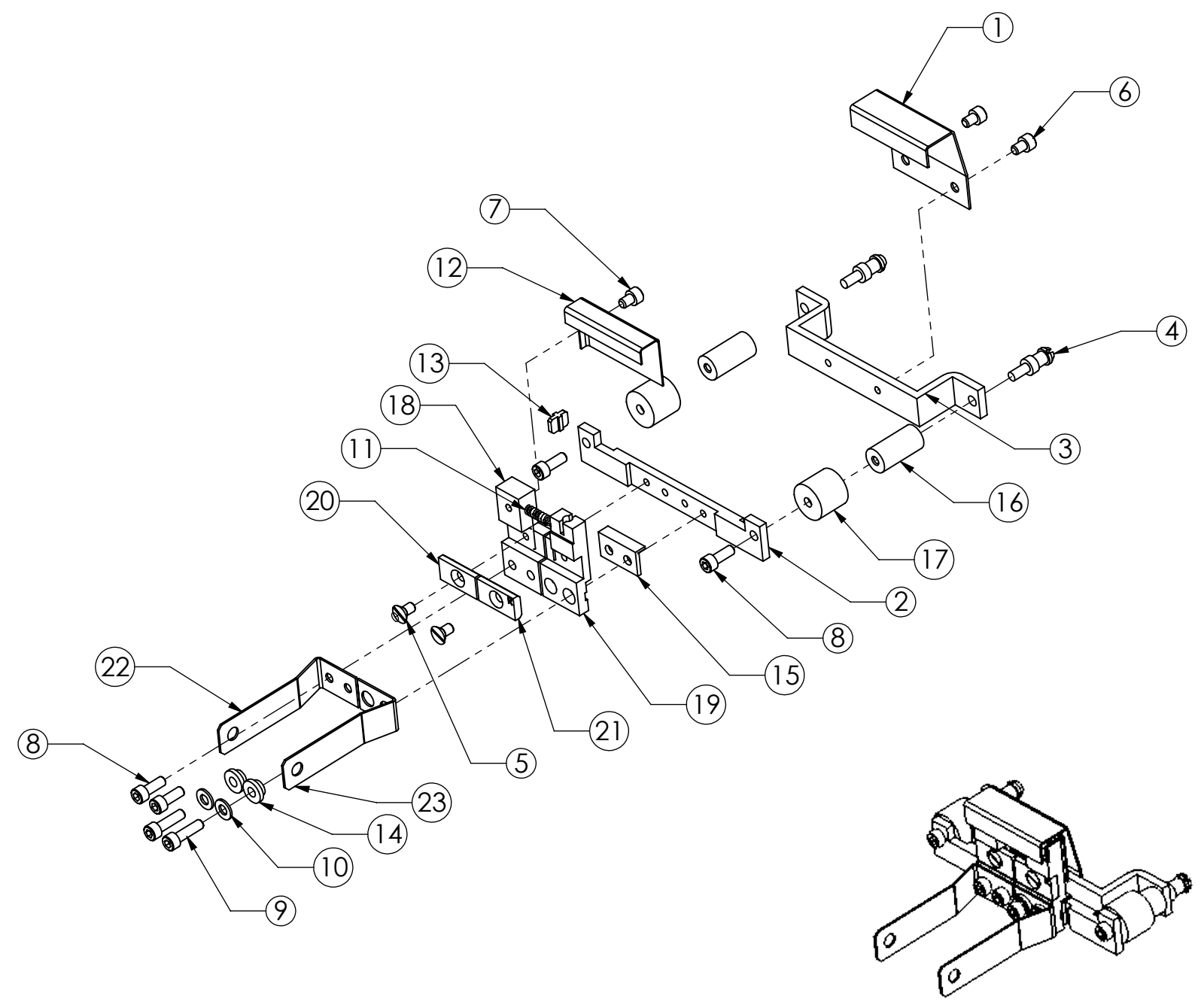
TELEMARK

Common Assemblies

E-Beam Source

A B C D E F G H

ECN	ZONE	REV	DESCRIPTION	BY	DATE
		A	RELEASE		12/15/2004
		B	UPDATE DRAWING TO CORRECT PART NUMBER	D. LY	1/11/2011
990937		B1	CHANGED SCREW FROM HEX HEAD TO SLOT HEAD	GPD	2/23/2021



ISOMETRIC VIEW

ITEM NO.	QTY.	PART NO.	DESCRIPTION
1	1	253-0003-1	ANODE
2	1	253-0017-2	MOUNTING BRACKET, HV CUPS
3	1	253-0018-1	SUPPORT BRACKET
4	2	253-0040-1	MOUNTING SCREW
5	2	271-6010-5	SCREW, #6-32 X 1/4" SLOT FLAT HEAD, Ti
6	2	271-6020-1	VENTED SCREW, #6-32 X 3/16" SST SHCS
7	1	271-6020-5	SCREW, #6-32 X 3/16" TI SHCS
8	4	271-6050-1	VENTED SCREW, #6-32 UNC X 3/8" SHCS
9	2	271-6060-1	VENTED SCREW, #6-32 X 1/2" SST SHCS
10	2	271-6242-1	FLAT WASHER, #6 SST
11	1	273-0001-1	FILAMENT, 7-1/2 TURN
12	1	273-0004-2	BEAM FORMER
13	1	273-0005-1	INSULATOR, CROSS
14	2	273-0006-1	INSULATOR, COLLAR
15	1	273-0008-1	L INSULATOR
16	2	273-0010-1	HV INSULATOR
17	2	273-0011-1	HV SHIELD
18	1	273-0031-1	CATHODE BLOCK, LEFT
19	1	273-0032-1	CATHODE BLOCK, RIGHT
20	1	273-0033-3	FILAMENT CLAMP, LEFT
21	1	273-0033-4	FILAMENT CLAMP, RIGHT
22	1	273-0035-1	EMITTER BUS BAR, LEFT
23	1	273-0036-1	FILAMENT BUS BAR, RIGHT

UNLESS OTHERWISE SPECIFIED GLOBAL TOLERANCES <table border="0"> <tr><td></td><td>INCHES</td><td>[mm]</td></tr> <tr><td>.X</td><td>+/- .03</td><td>[0.762]</td></tr> <tr><td>.XX</td><td>+/- 0.01</td><td>[0.254]</td></tr> <tr><td>.XXX</td><td>+/- 0.005</td><td>[0.127]</td></tr> </table> ANGLES +/- .5° SURF FINISH 63 RMS		INCHES	[mm]	.X	+/- .03	[0.762]	.XX	+/- 0.01	[0.254]	.XXX	+/- 0.005	[0.127]	DWG BY D. LY DATE 12/15/04 CHECK BY DATE PROJ ENG DATE MFG ENG DATE	MATERIAL: FINISH: THIRD ANGLE PROJECTION	
		INCHES	[mm]												
.X	+/- .03	[0.762]													
.XX	+/- 0.01	[0.254]													
.XXX	+/- 0.005	[0.127]													
FILE NUMBER - 253-0150-1 INITIAL PROJECT -	<p style="text-align: center;">EMITTER ASSEMBLY</p>														
CONFIDENTIAL. This document contains proprietary data of TELEMARK and is not to be copied or distributed without the prior written consent of TELEMARK. The receipt or possession of the document does not convey any rights to reproduce it, disclose its contents, or to manufacture, use or sell anything incorporating the concepts and details disclosed by it. Such concepts and details are not to be used other than for the benefit of TELEMARK and are not to be disclosed to others without the prior written consent of an officer of TELEMARK.			<table border="0"> <tr> <td rowspan="2" style="font-size: 2em; vertical-align: middle;">B</td> <td>SCALE 1:2</td> <td>DWG NO.</td> <td>REV</td> </tr> <tr> <td>SHEET 1 of 1</td> <td style="font-size: 1.2em;">253-0150-1</td> <td>B1</td> </tr> </table>	B	SCALE 1:2	DWG NO.	REV	SHEET 1 of 1	253-0150-1	B1					
B	SCALE 1:2	DWG NO.	REV												
	SHEET 1 of 1	253-0150-1	B1												