

varian

A Siemens Healthineers Company

愛媛県 松山市南梅本町甲160番

customer support

作業情報

作業指示番号	WO-004085622	ケース	05457061
作業担当者	西岡 航	受注番号	

機器情報

納入商品	H193184	Product Name	TrueBeam STX
Beam Hours	2,046.80	Filament Hours	23,810.50
UDI	010089947500223311170727213184	取引先責任者	Sunouchi Mitsuaki

作業内容

件名	定期点検Q1 STX
作業内容	定期点検Q1を実施いたしました。 詳細につきましては、別紙保守点検報告書をご参照ください。

【特記事項】

- ・ 治療中Fault点灯:420207(A58)420223(A60),Clearはできた件について
A58,A60の清掃及びT-nut, leaf motor,Actuator交換
,A60 Screw 交換,A ISO Softpot交換を実施。
- ・ A側 Encoder strip交換実施いたしました。
- ・ X線管球放電防止ガスケットの定期交換及び
キャンドルスティック潤滑を実施いたしました。
- ・ 6e,12e,15e,6eHDTSe 線量率調整いたしました。

連絡事項	共同作業者 ・ 岡崎 純
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作業日時

障害発生日時	2026/02/03 10:19	装置復帰	2026/02/06 20:15
到着日時	2026/02/05 17:00	退出日時	2026/02/06 20:15
移動時間合計	2.00	作業時間合計	7.25
移動/作業時間合計	9.25	装置停止時間	

作業内訳

開始日	終了日	納入商品	作業区分	作業時間
2026-02-05 17:00	2026-02-05 21:00	H193184	PMI	4.00
2026-02-06 17:00	2026-02-06 20:15	H193184	PMI	3.25

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取付 / 納入部品

部品番号	品名/規格	数量	ソース	納品
SE600059370	LAMP,PROJECTION,12V,ROHS;	1	V - Varian Supplied	<input type="checkbox"/>
10002346603	MODIFIED,DRIVE NUT,MACHINE HALF	5	V - Varian Supplied	<input type="checkbox"/>
10002756901	ASSY, HALF LEAF DRIVE SCREW	2	V - Varian Supplied	<input type="checkbox"/>
10002772801	ASSY, QTR LEAF DRIVE SCREW	1	V - Varian Supplied	<input type="checkbox"/>
P1055240001	SECONDARY FEEDBACK ACTUATOR	5	V - Varian Supplied	<input type="checkbox"/>
10002245727	SOFTPOT, HD120 MLC, ASSY, SIDE A ISO	1	V - Varian Supplied	<input type="checkbox"/>
110121601	ENCODER STRIP (MILL MLC)	1	V - Varian Supplied	<input type="checkbox"/>
10002243509	MOTOR, HD, HALF LEAF	2	V - Varian Supplied	<input type="checkbox"/>

品質に関する声明

すべての校正に関わる確認は、お客様の責任範疇となります。ご確認をお願いいたします。
また、ビーム品質ガイドライン (CTB-GE-871)に記載されている部品交換を実施した場合は、
治療を再開する前にビーム品質ガイドラインに従い、必要なビームQAテストおよびアライメントを
実施する必要があります。ご対応をお願いいたします。

お客様の署名

お客様 :

日付 :

須内光明

電子サイン者 : mitsuaki
sunouchi
日付 : 2026年2月10日
11:24:16 GMT+9

2026年2月10日

エンジニアの署名

担当者 :

日付 :

西岡航

電子サイン者 : Wataru
Nishioka
日付 : 2026年2月10日
11:04:58 GMT+9

2026年2月10日

船多聖士

電子サイン者 : Kiyoshi
Funada
日付 : 2026年2月10日
11:48:32 GMT+9

2026年2月10日

四国がんセンター 殿

TrueBeamSTX #H193184

保守点検報告書

対象周期: Q1

点検日: 2026/2/5 ~ 2026/2/6

点検者: 岡崎 西岡

Fil. Hrs: 23810.5 Beam. Hrs: 2046.8

特記事項

定期点検(Q1)を実施しました。

【点検結果】

特に問題ありませんでした。

【特記事項】

- ・治療中Fault点灯:420207(A58)420223(A60),Clearはできた件について,
A58,A60の清掃及びT-nut, leaf motor,Actuatorr交換,A60 Screw 交換,A ISO Softpot交換を実施。
- ・A側 Encorder strip交換実施いたしました。
- ・6e,12e,15e,6eHDTSe 線量率調整いたしました。

【定期交換部品】

- ・X線管球放電防止ガスケットの定期交換及びキャンドルスティック潤滑を実施いたしました。

株式会社バリアン メディカル システムズ

CHECKLIST SHEET REV: 05 PMP Active: True SPA MODE ACCEPTANCE DATE: 11/02/2017
 SITE: NHO SHIKOKU CANCER CENTER CITY: MATSUYAMA-SHI 790-0280 COUNTRY: Japan
 PCSN: H193184 PRINT DATE: 2/09/2026
 REP NAME : Wataru Nishioka FILAMENT HOURS: 23810.5 BEAM HOURS: 2046.8
 Color Coding: Dark Green = Recently completed, Green = Within period, Yellow = Pending, Red = Overdue
 Abbreviaton: NA= Not Applicable, TR= Task Responsibility

Comments: Note, comments here are for information only. Use standard process for initiating and controlling follow up tasks

【特記事項】8/12/2025,Wataru Nishioka

- ・治療中Fault点灯:420207(A58)420223(A60),Clearはできた件について,2/06/2026,Wataru Nishioka
 A58,A60の清掃及びT-nut, leaf motor,Actuatorr交換,A60 Screw 交換,A ISO Softpot交換を実施。.,2/06/2026,Wataru Nishioka
- ・A側 Encorder strip交換実施いたしました。.,2/06/2026,Wataru Nishioka
- ・X線管球放電防止ガスクットの定期交換及びキャンドルスティック潤滑を実施いたしました。.,2/06/2026,Wataru Nishioka
- ・6e,12e,15e,6eHDTSe 線量率調整いたしました。.,2/06/2026,Wataru Nishioka
- +15V:14.98V -15V:-15.05 5V high/low:5.206/4.992 motor power:15.14,11/06/2025,Wataru Nishioka

Checklist	Date Completed	Target Date	HaspUser	TR
6 PMP Pre-Site Preparation				
6.1 Review PMP Checklist	2/06/2026	6/06/2026	Wataru Nishioka	Varian
6.2 Customer Interview	2/06/2026	6/06/2026	Wataru Nishioka	Varian
6.3 Review ViDA / Event Logs	2/06/2026	6/06/2026	Wataru Nishioka	Varian
7 Initial Tasks				
7.1 Check Initial Beam Performance	2/06/2026	6/06/2026	Wataru Nishioka	Varian
7.2 Capture Data in the HET PMI Application	2/05/2026	6/05/2026	Wataru Nishioka	Varian
7.3 Analyze/Compare Data in the PMI Application	2/05/2026	6/05/2026	Wataru Nishioka	Varian
7.4 Review Initialization, Calibration, Fault Frequency	11/06/2025	7/04/2026	Wataru Nishioka	Varian
8 Emergency Stop (EMS) Operation				
8.1 Test Emergency Operations with Side Panel and Service Pendant	2/06/2026	6/06/2026	Wataru Nishioka	Varian
8.2 Test EMS Switches and Emergency Disconnect	11/07/2025	7/05/2026	Wataru Nishioka	Varian
9 Clean and Inspect				
9.1 Clean and Inspect Console Cabinets	2/06/2026	10/04/2026	Wataru Nishioka	Varian
9.2 Clean and Inspect Stand	2/06/2026	10/04/2026	Wataru Nishioka	Varian
9.3 Clean and Inspect Gantry	11/06/2025	7/04/2026	Wataru Nishioka	Varian
9.4 Clean and Inspect Modulator	2/05/2026	10/03/2026	Wataru Nishioka	Varian
10 Console				
10.1 Verify Cooling Fans/Power Supply Operation	2/06/2026	6/06/2026	Wataru Nishioka	Varian
10.2 Test UPS Operation	2/06/2026	2/06/2027	Wataru Nishioka	Varian
11 Stand				
11.1 Verify Stand Fans Operation	2/05/2026	10/03/2026	Wataru Nishioka	Varian
11.2 Inspect SVC Pulse Tank Desiccant	2/05/2026	10/03/2026	Wataru Nishioka	Varian
11.3 Inspect Stand Water Flow Meters	2/05/2026	10/03/2026	Wataru Nishioka	Varian
11.4 Test Gantry Brake Operation	2/06/2026	10/04/2026	Wataru Nishioka	Varian
11.5 Inspect Gantry Rotation Drive Motor Chain and Sprocket	2/05/2026	10/03/2026	Wataru Nishioka	Varian
11.6 Inspect Gantry Chain Master Link	2/05/2026	10/03/2026	Wataru Nishioka	Varian
11.7 Inspect Gantry Chain Tension	2/05/2026	2/05/2027	Wataru Nishioka	Varian
11.8 Replace Water System Filter Cartridge	8/08/2025	8/08/2026	Wataru Nishioka	Varian
11.9 Measure/Compare Klystron Parameters	2/05/2026	10/03/2026	Wataru Nishioka	Varian
12 Gantry				
12.1 Inspect Counterweight Mounting Bolts	5/16/2025	5/16/2026	Jun Okazaki	Varian
12.2 Verify Gantry Fan Operation	11/06/2025	7/04/2026	Wataru Nishioka	Varian
12.3 Inspect Gantry Flow Meters	11/06/2025	7/04/2026	Wataru Nishioka	Varian
12.4 Inspect Gantry Water Hoses	11/06/2025	7/04/2026	Wataru Nishioka	Varian
12.5 Inspect Gantry Windup	11/06/2025	7/04/2026	Wataru Nishioka	Varian
12.6 Measure/Compare Motor and Node Power Supply Voltage	11/06/2025	7/04/2026	Wataru Nishioka	Varian
12.7 Measure/Compare Vacion Pump Current and Voltage	11/06/2025	7/04/2026	Wataru Nishioka	Varian
12.8 Measure/Compare BMAG Coil Voltage	5/16/2025	5/16/2026	Jun Okazaki	Varian
12.9 Inspect Skull Cap Fasteners	11/06/2025	7/04/2026	Wataru Nishioka	Varian
12.10 Measure/Compare ASOL Coil Voltage	5/16/2025	5/16/2026	Jun Okazaki	Varian

12.11	Inspect Energy Switch Assembly	11/06/2025	7/04/2026	Wataru Nishioka	Varian
13 Gun Driver					
13.2	Verify HV Warning Lights and CroBar Operation	11/06/2025	7/04/2026	Wataru Nishioka	Varian
13.3	Verify Cooling Fans Operation	11/06/2025	7/04/2026	Wataru Nishioka	Varian
13.4	Measure/Compare Gun Driver Parameters	11/06/2025	7/04/2026	Wataru Nishioka	Varian
13.5	Clean and Inspect Gun Driver	11/06/2025	7/04/2026	Wataru Nishioka	Varian
14 Carousel					
14.1	Clean and Inspect Carousel Assembly	11/06/2025	7/04/2026	Wataru Nishioka	Varian
14.2	Clean and Inspect Carousel Transverse Axis Resolver	11/06/2025	7/04/2026	Wataru Nishioka	Varian
14.3	Clean and Inspect Carousel Radial Axis Resolver	11/06/2025	7/04/2026	Wataru Nishioka	Varian
14.4	Clean and Lubricate Carousel Radial Axis Lead Screw	5/16/2025	5/16/2026	Jun Okazaki	Varian
14.5	Inspect Ion Chamber Assembly	11/06/2025	7/04/2026	Wataru Nishioka	Varian
14.6	Clean and Lubricate Ion Chamber Lead Screw	5/16/2025	5/16/2026	Jun Okazaki	Varian
14.7	Clean and Lubricate Carousel and Ion Chamber Bearing	11/06/2025	7/04/2026	Wataru Nishioka	Varian
14.8	Clean and Inspect Target Drive Assembly	11/06/2025	7/04/2026	Wataru Nishioka	Varian
14.9	Initialize Carousel Axes	11/06/2025	7/04/2026	Wataru Nishioka	Varian
14.10	Replace Field Lamps	5/16/2025	5/16/2026	Jun Okazaki	Varian
15 MLC					
15.1	Inspect and Lubricate MLC	11/06/2025	7/04/2026	Wataru Nishioka	Varian
15.2	Measure MLC Power Supply Voltages	11/07/2025	7/05/2026	Wataru Nishioka	Varian
15.3	initialize MLC	2/06/2026	6/06/2026	Wataru Nishioka	Varian
15.4	Verify Backlash v2.5	NA	Option is not installed/included	Yuuichi Fukuhara	
16 Automated Diagnostic Tests					
16.2	Perform v2.7 Automated Diagnostic Tests	2/05/2026	10/03/2026	Wataru Nishioka	Varian
16.3	Perform v2.5 Automated Diagnostic Tests	NA	Option is not installed/included	Takashi Inoue	
16.4	Perform v3.0 Auto Performance Test (ATP)	NA	Option is not installed/included	Takuya Nomura	
17 Collimator					
17.1	Inspect Collimator	11/06/2025	7/04/2026	Wataru Nishioka	Varian
17.2	Lubricate Lower Jaws	5/16/2025	5/16/2026	Jun Okazaki	Varian
17.3	Lubricate Upper Jaws	5/16/2025	5/16/2026	Jun Okazaki	Varian
17.4	Lubricate Collimator Rotation Bearing	5/16/2025	5/16/2026	Jun Okazaki	Varian
18 Accessories					
18.1	Inspect Accessory Mount	2/06/2026	10/04/2026	Wataru Nishioka	Varian
18.2	Inspect and Test Electron Applicators	2/06/2026	10/04/2026	Wataru Nishioka	Varian
18.3	Inspect Wedges	NA	Function/feature disabled by customer	Takashi Inoue	
18.4	Check LaserGuard Alignment	NA		Takashi Inoue	
19 Couch					
19.2	Inspect IGRT Couch Top	11/06/2025	7/04/2026	Wataru Nishioka	Varian
19.3	Clean and Inspect Lower Couch Area	11/06/2025	7/04/2026	Wataru Nishioka	Varian
19.4	Clean, Inspect and Lubricate Lift Drive	11/06/2025	7/04/2026	Wataru Nishioka	Varian
19.5	Clean, Inspect and Lubricate LNG/LAT Carriage Rails	11/06/2025	7/04/2026	Wataru Nishioka	Varian
19.6	Clean and Inspect Couch Longitudinal Encoder and Cables	11/06/2025	7/04/2026	Wataru Nishioka	Varian
19.7	Clean, Inspect and Lubricate Perfect Pitch Couch	11/06/2025	7/04/2026	Wataru Nishioka	Varian
19.8	Test Couch Pendants and Side Panels	11/06/2025	7/04/2026	Wataru Nishioka	Varian
19.9	Clean, Inspect and Lubricate Couch Turntable	5/16/2025	5/16/2026	Jun Okazaki	Varian
20 Modulator					
20.2	Verify Cooling Fans Operation	2/05/2026	10/03/2026	Wataru Nishioka	Varian
20.3	Test High Voltage Crowbar Operation	2/05/2026	10/03/2026	Wataru Nishioka	Varian
20.4	Measure/Compare Modulator Parameters	2/05/2026	10/03/2026	Wataru Nishioka	Varian
21 Imaging System					
21.1	Collect XI Diagnostic Data	2/06/2026	6/06/2026	Wataru Nishioka	Varian
21.2	Clean and Inspect KV Generator	2/06/2026	10/04/2026	Wataru Nishioka	Varian
21.3	Verify Cooling Fans Operation	2/06/2026	10/04/2026	Wataru Nishioka	Varian
21.4	Verify Imaging Arms Positioning	2/06/2026	10/04/2026	Wataru Nishioka	Varian
21.5	Clean and Inspect Imaging Arms	2/06/2026	10/04/2026	Wataru Nishioka	Varian
21.6	Clean and Inspect KVS Collimator and Filter Deck	2/06/2026	10/04/2026	Wataru Nishioka	Varian
21.7	Verify Imaging Arms Motion Control Safety	2/06/2026	10/04/2026	Wataru Nishioka	Varian
21.8	Inspect X-Ray Tube and Heat Exchanger	2/06/2026	10/04/2026	Wataru Nishioka	Varian
21.9	Clean, Inspect and Grease HT Cable Candlesticks at X-Ray Tube	2/06/2026	10/04/2026	Wataru Nishioka	Varian

21.10 Inspect HT Cable Candlesticks at EMD Generator	8/08/2025	8/08/2026	Wataru Nishioka	Varian
21.11 Record Norm Chamber Values	2/06/2026	10/04/2026	Wataru Nishioka	Varian
21.12 Verify IsoCal	2/06/2026	10/04/2026	Wataru Nishioka	Varian
21.13 Compare MVD, KVD and KVS Reference Positions	2/06/2026	10/04/2026	Wataru Nishioka	Varian
21.14 Acquire Motion Records from MVD, KVD and KVS	NA	Option is not installed/included	Takuya Nomura	
22 Tune Dose Rate and Compare Parameter Data				
22.1 Test MU Backup Counter	2/06/2026	6/06/2026	Wataru Nishioka	Varian
22.2 Tune Dose Rate and Capture Data	2/06/2026	10/04/2026	Wataru Nishioka	Varian
22.3 Test Unserved Output vs Rotation	11/07/2025	7/05/2026	Wataru Nishioka	Varian
22.4 Inspect Waveforms	11/07/2025	7/05/2026	Wataru Nishioka	Varian
23 Final PMP Items				
23.1 Finalize HET PMI Program	2/06/2026	6/06/2026	Wataru Nishioka	Varian
23.2 Replace Barcode Reader Batteries	NA	Option is not installed/included	Takashi Inoue	
23.3 Initialize Axes	2/06/2026	6/06/2026	Wataru Nishioka	Varian
23.4 Install and Inspect Covers	2/06/2026	6/06/2026	Wataru Nishioka	Varian
23.5 Clean Covers	2/06/2026	10/04/2026	Wataru Nishioka	Varian
23.6 Backup Nodes, System, Preference Settings	2/06/2026	10/04/2026	Wataru Nishioka	Varian
23.7 Manage Saved Parameter Data	11/07/2025	7/05/2026	Wataru Nishioka	Varian
23.8 Distribute Official PMP Checklist	2/06/2026	6/06/2026	Wataru Nishioka	Varian
23.9 Test Clinical Operation	2/06/2026	6/06/2026	Wataru Nishioka	Varian
23.10 Review Low Frequency Tasks	2/06/2026	6/06/2026	Wataru Nishioka	Varian
23.11 Review Follow-up Actions	2/06/2026	6/06/2026	Wataru Nishioka	Varian
23.12 Clean Work Area	2/06/2026	6/06/2026	Wataru Nishioka	Varian
24 Calypso				
24.1 Complete 8 Month Tasks in Calypso PMI and Checklist	NA	Option is not installed/included	Yuuichi Fukuhara	
24.2 Complete 12 Month Tasks in Calypso PMI and Checklist	NA	Option is not installed/included	Yuuichi Fukuhara	
25 OSMS				
25.1 Complete 6 Month Tasks in OSMS PMI and Checklist	NA	Option is not installed/included	Yuuichi Fukuhara	
25.2 Complete 12 Month Tasks in OSMS PMI and Checklist	NA	Option is not installed/included	Yuuichi Fukuhara	
26 Low Frequency Tasks				
26.2 Replace Distilled Water and Clean Strainer (2 Years)	11/07/2025	11/07/2027	Wataru Nishioka	Varian
26.3 Replace Emergency Operations Batteries (2 Years)	NA	Option is not installed/included	Yuuichi Fukuhara	
26.4 Lubricate Gantry Bearing (2 Years)	6/14/2024	6/14/2026	(*)Wataru Nishioka	Varian
26.5 Measure Generator Output (2 Years)	8/08/2025	8/08/2027	Wataru Nishioka	Varian
26.6 Backup TrueBeam and Service Workstations (2 Years)	11/07/2025	11/07/2027	Wataru Nishioka	Varian
26.7 Replace Rangefinder Lamp (4 Years)	6/10/2022	6/09/2026	(*)Wataru Nishioka	Varian
26.8 Replace VMS-200 X-Ray Generator Fans (5 Years)	NA	Option is not installed/included	Jun Okazaki	
26.9 Replace IGMA Workstation Batteries (5 Years)	11/11/2022	11/10/2027	Jun Okazaki	Varian
26.10 Replace VMS-200 X-Ray Generator CPU Battery (5 Years)	NA	Option is not installed/included	Jun Okazaki	
26.11 Replace Modulator T4-C1 Capacitor (5 years)	11/11/2022	11/10/2027	Jun Okazaki	Varian
26.12 Replace Interface Mount Guide Blocks (7 Years)	8/08/2024	8/07/2031	Wataru Nishioka	Varian
26.13 Replace Gantry and Stand Hoses (10 Years)	No_date_yet	10/31/2027		Varian

PARAMETER SHEET																	
MODULATOR																	
Parameters	Tolerance	Value	Parameters	Tolerance	Value	Parameters	Tolerance	Value	Parameters	Tolerance	Value	Parameters	Tolerance	Value	Parameters	Tolerance	Value
3 Phase input AB	±3 %	206.10	Main Thyatron Fil	±0.2 %	6.35												
3 Phase input AC	±3 %	209.60	Dqng Thyatron Fil	±0.2 %	6.32												
3 Phase input BC	±3 %	208.60	Keep-Alive	≤23 VDC	19.68												
Plate XFMR Tap	NA	8.00															
STAND and POWER SUPPLIES																	
Parameters	Tolerance	Value	Parameters	Tolerance	Value	Parameters	Tolerance	Value	Parameters	Tolerance	Value	Parameters	Tolerance	Value	Parameters	Tolerance	Value
Klystron SN	NA	21217	KLY I (Lo-X) (I1 @ Pulse Tank)	NA	6.78	KLY V Backswing Percentage (Lo-X)	NA	20.00									
KFI V	NA	236.80	KLY V (Lo-X) (I2 @ Pulse Tank)	NA	4.32	PFN V Actual (Lo-X)	NA	6.58									
KSCL I	NA	38.97	KLY I (Hi-e) (I1 @ Pulse Tank)	NA	8.72	PFN V Actual (Hi-e)	NA	8.18									
KSCL V	NA	105.43	KLY V (Hi-e) (I2 @ Pulse Tank)	NA	5.24	KLY I Conman Cal Factor (Amps/Volt)	NA	3.54									
VACUUM POWER SUPPLY																	
Parameters	Tolerance	Meter uA	Tolerance	Meter KV	Probe KV												
ACC PUMP	±20 uA	0.00	NA	-5.27	-5.25												
GUN PUMP	±20 uA	0.00	NA	3.22	3.19												
KLY PUMP	±20 uA	0.22	NA	3.21	3.18												
WATER and SF6																	
Parameters	Tolerance	Value	Parameters	Tolerance	Value												
System Water Pressure	NA	50.00	SF6 Regulator	NA	33.05												
Facility Water Pressure	NA	38.00	SF6 Fault level	NA	27.96												
OverTemp Trip	NA	42.00	SF6 Warning level	NA	29.95												
WATER FLOW and TEMPERATURE																	
Parameters	BMAG Flow	LGuide Flow	SGuide Flow	PriColl Flow	Target Flow	City Water Flow	Klystron Flow	Klys Sol Flow	Guide Flow	PumpOutlet T ^a	TankInput T ^a	City Water T ^a	Motor Valve	Pump Speed			
Standby	0.56			1.18	0.80	8.43	6.79	3.92	3.18	39.87	40.57	19.33	43.84	44.99			
ON	0.68			1.42	0.97	8.36	8.00	4.67	3.81	39.97	40.62	19.16	49.09	79.97			
POWER SUPPLIES (GPD, SPD, APD)																	
Parameters	GPD_24V	GPD_28V	SPD_5VP	SPD_24VP	SPD_28VP	SPD_48VP	SPD_3.3VP	SPD_EMO	SPD_24VBAT	CoreBiasI	CoreBiasV	APD_12VP	APD_24V	APD_28V			
Standby	23.49	27.89		23.88	28.01	47.98	3.29	25.86		0.23		12.01	23.66	0.00			
ON	23.49	27.89		23.88	28.01	47.98	3.29	25.86		0.22		12.01	23.63	0.00			
POWER SUPPLIES (BGM, DMD)																	
Parameters	BGM_5V	BGM_PSVP	BGM_NSVP	BGM_24VP	BGM_N12VP	BGM_3.3VP	DMD_15VP	DMD_3.3VP	DMD_5VP	DMD_NSVA	DMD_PSVA	DMD_15VP	DMD_24VP	DMD_EMO24			
Standby	4.98	4.97	5.07	23.58	12.25	3.27	1.47	3.30	5.01	-5.01	4.95	14.77	23.98	23.98			
ON	4.98	4.97	5.07	23.60	12.25	3.27	1.47	3.30	5.00	-5.01	4.95	14.77	23.98	23.98			
POWER SUPPLIES [Console PU Motors]																	
Parameters	CONTPWRA	CONTPWRB	Console 220	EMO PS	Live24V	24V Node	28V Motor	48V PU	96V PU								
Values	116.52	116.86	212.50	24.43	23.71	23.91	28.04	48.35	96.53								
RF DRIVER																	
Parameters	Tolerance	Value	Parameters	Tolerance	Value												
RF Driver SN	NA	4674	Sensitivity	NA													
Center Freq	NA	2857.200															
BOARD TEMPERATURE																	
Nodes	STN	BGM	COL	MOD	PWM	RFSPS	CCHU	CCHL	KVS	KVD	MVD	XI	EGN				
Temperatures	34.95	31.71	34.69	37.38	32.46	35.55	35.01	33.50	31.46	30.86	29.93	53.25	43.93				
GANTRY																	
Parameters	Tolerance	Value	Parameters	Tolerance	Value												
ASCL Short Coil (Hi-X)	±3 %	18.93	Gun Fil V	NA	5.25												
ASCL Long Coil (Hi-X)	±3 %	69.43	Gun Fil I	NA	3.53												
ASCL PS Current (Hi-X)	±3 %	35.80	Gun 5V	NA	NA												
ASCL PS Voltage (Hi-X)	NA	91.00	Gun 15V	NA	NA												
BMAG E1-E2 (Hi-X)	±0.2 %	1.77	Gun -15V	NA	NA												
BMAG E3-E4 (Hi-X)	±0.2 %	1.78															
BGM																	
DOSIMETRY																	
Parameters	2.5x	4x	6x	6xFFF	10x	10xFFF	6e	6eHDTSE	9e	12e	15e	NA	NA	NA	NA	NA	NA
Buncher R	0.22	0.08	0.42	0.42	-0.34	-0.34	0.24	0.24	0.63	-0.20	-0.06						
Buncher T	0.03	-0.17	0.07	0.07	-0.36	-0.36	0.15	0.20	0.20	-0.18	0.00						
Angle R	-0.03	-0.08	-0.03	-0.02	-0.08	-0.08	-0.01	-0.02	-0.15	-0.35	-0.49						
Angle T	0.10	-0.12	-0.03	0.07	-0.35	-0.23	0.23	0.22	0.11	0.21	-0.29						
Position R	-0.16	-0.07	0.25	0.35	0.53	0.50	0.00	0.00	0.00	0.00	0.00						
Position T	-0.29	0.14	-0.77	-0.82	0.57	0.59	0.00	0.00	0.00	0.00	0.00						
Trim	-0.09	-0.10	-0.07	-0.07	-0.14	-0.14	0.00	0.00	0.00	0.00	0.00						
Bal ANG R	0.996	0.982	0.989	0.986	0.985	0.982	0.953	0.952	0.900	0.874	0.868						
Bal ANG T	0.996	0.985	0.983	0.995	0.981	0.995	1.018	1.017	1.061	1.085	0.993						
Bal POS R	0.878	0.872	0.916	0.910	0.917	0.928	1.000	1.000	1.000	1.000	1.000						
Bal POS T	0.955	0.967	0.950	0.942	0.939	0.940	1.000	1.000	1.000	1.000	1.000						
Symmetry R	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.01						
Symmetry T	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01						
Nominal IonA	0.106	0.387	1.092	1.233	1.164	1.476	3.867	5.363	2.416	1.826	1.738						
Nominal IonB	0.106	0.394	1.104	1.251	1.183	1.502	4.059	5.634	2.683	2.088	2.003						
Nominal IonC	0.101	0.370	1.030	1.232	1.077	1.462	4.031	5.620	2.783	2.198	1.974						
Nominal IonD	0.101	0.376	1.048	1.238	1.098	1.470	3.959	5.524	2.622	2.026	1.988						
Nominal IonE	0.009	0.045	0.140	0.147	0.162	0.190	0.238	0.344	0.085	0.050	0.055						
Nominal IonF	0.011	0.051	0.153	0.161	0.177	0.205	0.323	0.458	0.114	0.066	0.069						
Nominal IonG	0.013	0.057	0.168	0.180	0.186	0.220	0.283	0.407	0.097	0.075	0.077						
Nominal IonH	0.014	0.059	0.176	0.191	0.198	0.234	0.296	0.425	0.109	0.061	0.081						
Nominal IonI	0.028	0.095	0.272	0.367	0.299	0.468	1.713	2.349	2.008	2.086	1.817						
Nominal IonJ	0.025	0.084	0.241	0.347	0.260	0.438	1.317	1.822	1.610	1.699	1.471						
Nominal Target	264.59	231.81	363.13	336.67	168.32	166.37	0.00	0.00	0.00	0.00	0.00						
Nominal FPWR	0.883	1.056	1.314	1.285	1.418	1.430	1.389	1.344	1.478	1.538	2.144						
Target I	271.56	244.73	360.81	335.61	173.03	168.87	-0.26	-0.23	-0.29	-0.26	-0.25						
Cal MU1	0.011	0.012	0.012	0.024	0.011	0.033	0.009	0.009	0.013	0.016	0.017						
Cal MU2	0.011	0.012	0.012	0.024	0.012	0.033	0.009	0.009	0.013	0.016	0.017						
DoseRate	69.94	289.06	566.19	883.36	593.15	892.68	577.41	2656.50	564.71	586.94	555.93						

BGM AXES																	
Parameters	2.5x	4x	6x	6FFF	10x	10MFF	6e	6eHDTSE	9e	12e	15e	NA	NA	NA	NA	NA	NA
Pos Y-Axis	5.00	4.90	5.02	5.00	4.99	5.00	150.54	150.54	150.29	150.18	150.08						
Pos Rotation	327.53	147.78	207.80	327.53	87.76	327.53	267.70	267.70	246.66	108.77	101.63						
Pos Ion Chamber	203.20	203.20	203.20	203.20	203.20	203.20	203.20	203.20	203.20	203.20	203.20						
Pos Target	70.00	27.00	27.00	27.00	46.00	58.00	3.50	3.50	3.50	3.50	3.50						
Pos ENSW	11.96	10.61	10.25	10.25	8.76	8.76	27.00	27.00	27.00	27.00	27.00						
Port	Port 1	Port 4	Port 3	Port 1	Port 5	Port 1	Foil 8	Foil 8	Foil 9	Foil 1	Foil 2						
BGM RF/COILS																	
Parameters	2.5x	4x	6x	6FFF	10x	10MFF	6e	6eHDTSE	9e	12e	15e	NA	NA	NA	NA	NA	NA
PFN V Set	6.57	6.57	6.57	6.57	6.57	6.57	6.57	6.57	6.57	6.57	8.18						
PFN V	6.54	6.57	6.54	6.54	6.55	6.56	6.56	6.55	6.57	6.56	8.14						
PFN Current	2.20	2.21	1.73	1.28	1.72	0.89	1.26	2.00	1.25	1.25	1.49						
AFC V	-6.95	-0.87	0.18	0.18	3.62	3.52	5.48	6.13	5.86	5.67	5.88						
AFC Bal	0.051	0.043	0.026	0.022	0.045	0.045	0.016	0.015	0.014	0.014	0.015						
ASOL V	75.42	52.88	92.88	92.51	94.50	94.70	92.93	92.35	99.40	66.50	34.74						
ASOL I	28.60	20.00	35.00	35.00	35.80	35.80	35.01	35.10	37.95	25.19	13.29						
BMAG V	0.94	1.74	2.27	2.28	3.88	3.91	2.64	2.65	3.72	4.92	6.09						
BMAG I	6.70	12.35	16.15	16.15	27.50	27.60	18.70	18.70	26.15	34.70	42.80						
RF Driver Freq	2858.6000	2857.4000	2857.2000	2857.2000	2856.5000	2856.5000	2856.1000	2856.0000	2856.0000	2856.1000	2856.0000						
RF Driver Watts	19.00	27.00	45.00	45.00	54.00	59.00	52.00	48.00	64.00	76.00	37.00						
RF Driver Console	1.74	2.23	3.09	2.96	3.44	3.46	3.41	3.29	3.72	4.02	3.10						
BGM GUN/TIMING																	
Parameters	2.5x	4x	6x	6FFF	10x	10MFF	6e	6eHDTSE	9e	12e	15e	NA	NA	NA	NA	NA	NA
Pulse Width	0.046	0.049	0.048	0.050	0.042	0.050	0.050	0.050	0.050	0.050	0.050						
Delay	0.006	0.007	0.007	0.007	0.012	0.012	0.008	0.008	0.008	0.008	0.008						
Gun Grid	103.43	116.75	122.57	113.40	55.96	57.05	34.05	35.73	9.38	2.47	14.81						
Gun HV Meter	-18160.00	-18160.00	-16157.00	-16162.00	-10179.00	-10179.00	-5689.00	-6178.00	-5195.00	-5201.00	-3181.00						
Gun HV Probe	-17.82	-17.82	-15.83	-15.83	-9.85	-9.85	-5.37	-5.87	-4.88	-4.88	-2.91						
OUTPUT VS ROTATION																	
Parameters	2.5x	4x	6x	6FFF	10x	10MFF	6e	6eHDTSE	9e	12e	15e	NA	NA	NA	NA	NA	NA
Max Dose	68.03		578.06		694.08		657.93				696.40						
Min Dose	65.77		560.18		677.59		646.37				677.98						
Deviation Percentage	3.38		3.15		2.40		1.77				2.70						
Lowest DR Angle	110.00		35.00		214.00		21.00				321.00						
Higest DR Angle	244.00		211.00		95.00		223.00				64.00						
COMMAN WAVEFORM MEASUREMENTS																	
Parameters	2.5x	4x	6x	6FFF	10x	10MFF	6e	6eHDTSE	9e	12e	15e	NA	NA	NA	NA	NA	NA
FWD PWR	0.43	0.52	0.64	0.63	0.69	0.70	0.68	0.65	0.71	0.74	1.03						
TARG I	0.94	0.86	1.30	1.20	0.61	0.59											
KLY I	1.94	1.94	1.94	1.94	1.94	1.94	1.94	1.94	1.94	1.94	2.48						
KLY V	2.29	2.29	2.29	2.29	2.29	2.29	2.29	2.29	2.29	2.29	2.81						
HVPS I (DeQing%)	43.58	41.55	54.28	62.18	54.28	66.35	64.35	48.49	61.98	61.98	57.33						
BGM AXES CALIB																	
Parameters	Y-Stage	Carousel Rot	ENSW	Ion Chamber	Target Drive												
Positive limit Distance	0.683	9.241	1.285	1.298	1.631												
Negative Limit Distance	154.680	345.850	28.977	205.930	71.184												
Resolver Angle	10417.000	12843.000	2910.000	8216.000	9653.000												
Secondary Resolver Angle	8128.000	2158.000	NA	12191.000	14795.000												
Travel Range	155.760	355.060	30.283	209.460	74.007												
Resolver Offset	-241.000	612.000	229.000	-45.000	-63.000												
AXES (Gant, COL, Couch)																	
Parameters	COL ROT	COL X1	COL X2	COL Y1	COL Y2	Parameters	Gantry	CCH VRT	CCH ROT	CCH LAT	CCH LNG	CCH PITCH	CCH ROLL				
DistHardStopB	354.980	9.606	9.610	10.250	10.294	PrimaryOffset	1.1148E005	71.571	7626.000	120.130	8.099	-0.140	0.100				
DistToLimitA	1.481	0.183	0.148	0.150	0.301	PrimaryCountPerUnit	-150.740	804.440	NA	1594.400	249.880	NA	NA				
DistToLimitB	353.470	9.457	9.431	10.067	10.057	SecondaryOffset	893.900	20.021	4597.000	114.980	9.747	-0.187	0.097				
ResolverOffsetCalib	-110.000	-827.000	-1533.000	10.000	69.000	SecondaryCountPerUnit	-7.5203E005	805.190	NA	1594.400	541.120	NA	NA				
PrimaryIsoGain	1.000	2.488	2.469	0.998	0.997	ResolverOffsetCalib	NA	NA	-159.000	67.000	-107.000	NA	NA				
PrimaryIsoOffset	0.000	0.322	0.302	0.448	0.469	TertiaryOffset	NA	NA	15625.000	NA	NA	NA	NA				
SecondaryIsoGain	1.000	2.488	2.469	0.998	0.999												
SecondaryIsoOffset	0.030	0.322	0.303	0.447	0.502												

IMAGING											
Inventory				MV/KV Test Image Chain							
Component	Type	Serial Number	Install Date	Parameter				Value			
X-Ray Tube	GS-542	47031-1U	2022/01/17	KV Dark Field Image Mean				554.6667			
X-Ray Generator	EMD	17-F0112	2017/10/31	KV Noise Image SD				7.06			
KV Imaging Panel	4030CB	R7-411S03-0201	2017/10/31	MV Dark Field Image Mean				636.4212			
MV Imaging Panel	DMI 0105	163101	2017/10/31	MV Noise Image SD				4.48			
				MV Drift Image Mean				365.7898			
				MV Drift Image SD				160.29			
X-Ray Generator											
Technique	DNC Counts	kVp	mA	mS	Miscellaneous Data				Value		
SF 60kVp 25mA 100ms	105.85	60.4	24.64	100.4	Tube Calibration Date YYYYMMDD				20220117		
SF 90kVp 50mA 100ms	1508.5	90.5	50.18	100.4	DNC Raw ADC Counts				14530		
SF 120kVp 80mA 20ms	1414.3	121.0	79.27	20.2							
LF 60kVp 25mA 100ms	103.2	60.4	24.71	100.4							
LF 90kVp 200mA 20ms	1124.5	90.2	183.7	19.9							
LF 90kVp 200mA 150ms	8947.7	90.5	199.3	149.8							
LF 120kVp 100mA 20ms	1671.3	121.1	92.99	20.1							
LF 120kVp 200mA 100ms	16290.4	120.7	198.4	99.8							
ARMS											
Parameters	KVD	KVS	MVD	Parameters	Blade X1	Blade X2	Blade Y1	Blade Y2	Foil	Shape	
System Calibration VRT	-0.240	0.006	-0.023	refPos	2.922	2.922	2.887	2.879	0.081	0.101	
System Calibration LONG	0.144	0.003	-0.053	distToHardstopA	-0.018	-0.018	-0.053	-0.061	NA	NA	
System Calibration LAT	0.043	0.000	0.008	distToHardstopB	-3.546	-3.563	-3.535	-3.524	14.992	19.291	
Teach Drive Elbow	89.293	119.950	84.840	TravelDist	-3.580	-3.580	-3.580	-3.580	NA	NA	
Teach Drive Wrist	230.030	184.950	227.900	axisCalibOffset	-0.105	0.054	-0.069	-0.005	0.000	0.127	
Axes Cal Shoulder primZeroPhy	249.070	313.180	222.730	distToFocal	10.942	10.915	9.384	9.355			
Axes Cal Elbow distToIndex	6.631	15.075	5.927								
Axes Cal Elbow TerZeroPhy	-107.470	141.090	50.062								
Axes Cal Wrist distToIndex	-14.157	10.143	-15.219								
Axes Cal Wrist TerZeroPhy	28.346	159.290	134.330								
Axes Cal Hand distHardStopB	-36.289	NA	-36.308								
Axes Cal Hand primZeroPhy	-17.872	NA	-16.621								
Axes Cal Hand terZeroPhy	-17.590	NA	-16.288								
Shoulder refPos	343.550	339.950	282.950								
Elbow refPos	18.941	31.086	18.927								
Wrist refPos	338.140	155.970	338.190								
Hand refPos	18.144	NA	18.155								