

Revision 1

Date	Event	Change	Addendum	Term Review	Sponsoring MDAA Sign	Participating MDAA(s) Sign	Center Director(s) Sign	MSC Chair Sign	CIO Sign when req'd
10/14/20	Initial Signatures	None	None	No	Yes	Yes	Yes	Yes	NR
12/29/20	Exclusion Exercise	Rev. 1 (see below)	Yes	No	SETCB Rep	SETCB Rep	SETCB Rep	No	NR

Revision 1 documents the results of the SETMO Capability Portfolio Exclusion Exercise conducted by the SETCB. The exclusion exercise was performed in accordance with NPR 8600.1., NASA Capability Portfolio Management Requirements, Section 2.1.3. The result was the exclusion of a significant number of capability components from Tier 2.

Section	Page	From	To	Comment
Background	5		In December 2020, the SET Control Board concurred with the results from the CPM Policy (NPD/R 8600.1, Section 2.1.3) Exclusion Exercise which reduced the number of Tier 2 capability components.	Added the language in the “To” column in a new paragraph.
2.0 Scope, Products, and Services	6	The SETMO Tier 2 is the collection of those capability components approved by the Agency SMC in August 2005 that were not provided SCAP sustainment funding and those capability components added through the November 2015 MSC decision that created SETMO.	The SETMO Tier 2 is the collection of those capability components approved by the Agency SMC in August 2005 that were not provided SCAP sustainment funding and those capability components added through the November 2015 MSC decision that created SETMO that were not excluded per the December 2020 Exclusion Exercise.	Added the language at the end of the “From” statement.
13.0 CPCA Activities Log	17		Rev.1, SETCB Rep	Added to Change Log

Appendix C – SETMO Tier1 and Tier 2 Capability Components	24-30	See Appendix C below	See Appendix C below	Added a strikethrough for all excluded capability components
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Appendix C – SETMO Tier 1 and Tier 2 Capability Components

SETMO TIER 1 CAPABILITY COMPONENTS

SETMO #	Capability Component Name
25	GRC VF-5
26	GRC VF-6
28	GRC Space Environment Complex
119.1	JSC Thermal Vacuum Chamber A
120	JSC Thermal Vacuum Chamber B
184	MSFC Sunspot Thermal Vacuum Testing Facility
185	MSFC Chamber V20 Thermal Vacuum Facility
1001	LaRC Flight Simulation Facilities
1000	ARC Vertical Motion Simulator
2000	ARC Arc Jet Complex
3000	DoE Lawrence Berkeley National Lab (LBNL)

AFRC CAPABILITY COMPONENTS IN SETMO TIER 2

SETMO #	Capability Component Name
226	SOFIA Mirror Coating Chamber

ARC CAPABILITY COMPONENTS IN SETMO TIER 1

SETMO #	Capability Component Name
1000	Vertical Motion Simulator
2000	Arc Jet Complex

ARC CAPABILITY COMPONENTS IN SETMO TIER 2

SETMO #	Capability Component Name
2	Dynavac Chamber
5	Sub-Zero Chamber (CSZ-32)
3	Tenney Altitude Chamber
4	Humidity Chamber (Despatch)

GRC CAPABILITY COMPONENTS IN SETMO TIER 1

SETMO #	Capability Component Name
25	VF-5

26 | VF-6

**GRC CAPABILITY COMPONENTS IN
SETMO TIER 2**

SETMO #	Capability Component Name
9	VF3
10	VF7
12	VF11
15	VF8
17	VF12
18	VF13
19	VF16
21	VF20
24	Small Multi-Purpose Research Facility (SMiRF)
14	Lunar Dust Adhesion Bell Jar
16	VF10
20	VF17
22	VF21
23	VF67
32	Glenn Extreme Environments Facility (GEER)
228	VF4
249.1	Structural Dynamics Lab MB-C-60
249.3	Structural Dynamics Lab Ling-4022

**GRC-PBS CAPABILITY COMPONENTS IN
SETMO TIER 1**

SETMO #	Capability Component Name
28.1	SEC Space Power Facility (SPF)
28.2	SEC Mechanical Vibration Facility (MVF)
28.3	SEC Reverberant Acoustic Test Facility (RATF)

**GRC-PBS CAPABILITY COMPONENTS IN
SETMO TIER 2**

SETMO #	Capability Component Name
29	Combined Effects Chamber (K-chamber)
28.4	SEC B1411 Assembly Area

**GSFC CAPABILITY COMPONENTS IN
SETMO TIER 2**

SETMO #	Capability Component Name
48	Space Environment Simulation 290
52	Magnetic Test Site
246	Acoustic Test Facility
44	Thermal Vacuum Facility 225
45	Facility 237
46	Facility 239

47	Thermal Vacuum Facility 238
50	Facility 232
51	Facility 233
53	Medium EMI/EMC Facility
54	Large EMI/EMC Facility
58	100-m X-ray Line
59	600-m X-ray Line
229	Chamber 246 "Deep Chamber"
230	Optical Calibration Chamber
245.1	Vibration Test Facility 409 UD T-4000
245.2	Vibration Test Facility 410 UD T-2000
245.3	Vibration Test Facility 411 UD T-4000
245.4	Vibration Test Facility 412 UD T-2000
260	SSDIF High Bay Cleanroom
261	MMS Cleanroom
262	Spacecraft Checkout Area

**GSFC - WFF CAPABILITY COMPONENTS IN
SETMO TIER 2**

SETMO #	Capability Component Name
49	GSFC WFF TVAC Chamber
242	Sounding Rocket Processing Vacuum Chamber (White Elephant)

**JPL CAPABILITY COMPONENTS IN
SETMO TIER 2**

SETMO #	Capability Component Name
76.1	25' Space Simulator
61	B-313 T6
62	B-144 T1
63	B-306 TV-24
64	6' Plexiglas Chamber within Anechoic Chamber
65.1	B-144 TV-12
65.2	B-144 TV-13
65.3	B-144 TV-14
65.4	B-144 TV-15
65.5	B-144 TV-16
65.6	B-144 TV-18
65.7	B-144 TV-19
65.8	B-144 TV-20
65.9	B-144 TV-21
66	B-144 TV-22
67	B-144 TV-8
68	B-313 TV-27
69	B-306 FOU D
70	B-144 TV-7
71	B-144 TV-10

72.1	B 306 TV 11 (11' Optics TVAC Chamber)
73	B 248 TV 10 (10' Space Simulator)
74	2-m d Helmholtz Coils
75	3.7-m d Helmholtz Coils
83	148 High Bay Electric Test Chamber 8' d x 16' l
84	Patio Chamber 10' d x 26' l
85	Ion Chamber 1
86	Ion Chamber 2
87	Ion Chamber 3
88	Ion Chamber 4
231	MAM Horizontal Vacuum Chamber, 8' d x 42' l (60 m ³ /2110 ft ³)
232	HCIT 8' Vacuum Chamber
233	Large Electric Propulsion Chamber
234	5' x 9' Vacuum Chamber
235	"Green" Vacuum Chamber
250.1	Vibration Lab LDS 994
250.2	Vibration Lab Ling 355
250.3	Vibration Lab LDS 964 1
250.4	Vibration Lab LDS 964 2
251	Acoustic Test Chamber
264	B 179 High Bay Cleanrooms 1
265	B 179 High Bay Cleanrooms 2
266	100-D (Bldg 150)
267	High Bay (Bldg 306)

**JSC CAPABILITY COMPONENTS IN
SETMO TIER 1**

SETMO #	Capability Component Name
119.1	Thermal Vacuum Chamber A
120	Thermal Vacuum Chamber B

**JSC CAPABILITY COMPONENTS IN
SETMO TIER 2**

SETMO #	Capability Component Name
91	8' Chamber
92	11' Chamber
93	ETA/Airlock Chamber
95	Space Station Airlock Test Article Chamber (SSATA)
101	B353 20' Chamber (ESTA 20')
105	20' Chamber
113	B351 15' Chamber
238.1	Radiant Heat Facility Chamber 1
238.2	Radiant Heat Facility Chamber 2
89	Thermal Chamber H
97	Vent Flow
98	Portable Life Support System (PLSS) Chamber

111	Chamber E
112	Chamber P
240	EM Drive Vacuum Chamber
252.1	General Vibration Lab (GVL) Ling 4022H
252.2	General Vibration Lab (GVL) Ling 4022V
252.3	General Vibration Lab (GVL) Ling 335
252.4	General Vibration Lab (GVL) Ling 310 Dual
252.5	General Vibration Lab (GVL) Spectral Dynamics
252.6	General Vibration Lab (GVL) HRVTB
253	Spacecraft Acoustic Lab (SAL)
254	Sonic Fatigue Lab (SFL)

**JSC-WSTF CAPABILITY COMPONENTS IN
SETMO TIER 2**

SETMO #	Capability Component Name
116	SESTL Essex Cylindrical Chamber
104.1	SESTL Rough Vacuum Chamber
104.2	SESTL Rough Vacuum Chamber
106	Test Stand 302
107	Test Stand 303
117.1	SESTL Webber Chamber 1
117.2	SESTL Webber Chamber 2
118	SESTL CVI Self Heated Chamber

**KSC CAPABILITY COMPONENTS IN
SETMO TIER 2**

SETMO #	Capability Component Name
130	Right (East) Altitude Chamber
131	Left (West) Altitude Chamber
268	PHSF High Bay
269	SSPF High Bay
270	High Bay Clean Room
271	O&C High Bay/Low Bay
272	MPPF High Bay
273	Intermediate Bay—SSPF

**LARC CAPABILITY COMPONENTS IN
SETMO TIER 1**

SETMO #	Capability Component Name
1001	Flight Simulation Facilities (CMF)

**LARC CAPABILITY COMPONENTS IN
SETMO TIER 2**

SETMO #	Capability Component Name
133.1	8x15' Space Simulation Chamber
133.2	5x5' Thermal Vacuum Chamber

133.3	6x6' Thermal Vacuum Chamber
137	16-meter Vacuum Chamber
138	8-foot Vacuum Chamber
258	Structural Acoustic Loads & Transmission Facility (SALT)
259	Thermal Acoustic Fatigue Apparatus (TAFA)
257.1	Vibration Laboratory U-D T2000
257.2	Vibration Laboratory U-D T4000
274	40' Clean Room

**MSFC CAPABILITY COMPONENTS IN
SETMO TIER 1**

SETMO #	Capability Component Name
184	Sunspot Thermal Vacuum Testing Facility
185	Chamber V20 Thermal Vacuum Facility

**MSFC CAPABILITY COMPONENTS IN
SETMO TIER 2**

SETMO #	Capability Component Name
183	V-15
195	TS300 20' Chamber
196	TS300 12' Chamber
199.1	X-Ray Cryogenic Facility (XRCF)
199.2	XRCF 4' Cryo Chamber
199.3	XRCF 4' Preconditioning Chamber
199.4	XRCF Contamination Evaluation Chamber
199.5	XRCF Clean Room
203.1	Stray Light Test Facility
256	Acoustic Test Facility
172	V-1
173	V-2
174	V-3
175	V-4
176	V-5
177	V-6
178	V-7
179	V-8
180	V-9
182	V-14
188	Thermal/Altitude Chamber TA-1
191	Thermal/Humidity Chamber TH-4
192	Thermal/Humidity Chamber TH-5
193	Thermal/Humidity Chamber TH-6
214	3' Pulsed Power Test Chamber
215	3' Iodine Propulsion Test Chamber
216	High Power Plasma Propulsion Research Test Chamber
217	Nuclear Power and Cryogenic Fluid Technology Test Chamber

255.1	East Vibration Laboratory U-D-T-4000
255.2	East Vibration Laboratory U-D-T-4000
255.3	West Vibration Laboratory U-D-T-2000
255.4	West Vibration Laboratory U-D-T-2000
255.5	West Vibration Laboratory U-D-T-4000A
255.6	West Vibration Laboratory U-D-T-4000A

**EXTERNAL CAPABILITY COMPONENTS IN
SETMO TIER 1**

SETMO #	Capability Component Name
3000	DoE Lawrence Berkeley National Lab (LBNL)

Revision 1 SETCB Signature Block

SETCB Role	SETCB Member	Signature	Date
Chair	Joel Carney	Joel Carney <small>Digitally signed by Joel Carney Date: 2021.05.04 12:48:11 -04'00'</small>	
Executive Secretary	Geoff Husk	GEOFFREY HUSK <small>Digitally signed by GEOFFREY HUSK Date: 2021.04.22 15:02:43 -04'00'</small>	
Representative for ARMD	Jon Montgomery	JON MONTGOMERY <small>Digitally signed by JON MONTGOMERY Date: 2021.04.22 17:31:17 -04'00'</small>	
Representative for HEOMD	Benjy Neumann	BENJAMIN NEUMANN <small>Digitally signed by BENJAMIN NEUMANN Date: 2021.04.28 14:49:32 -04'00'</small>	
Representative for SMD	Karen Flynn	KAREN FLYNN <small>Digitally signed by KAREN FLYNN Date: 2021.05.04 12:54:10 -04'00'</small>	
Representative for STMD	Prasun Desai	PRASUN DESAI <small>Digitally signed by PRASUN DESAI Date: 2021.04.28 09:49:34 -04'00'</small>	
Representative for ARC	George Raiche	GEORGE RAICHE <small>Digitally signed by GEORGE RAICHE Date: 2021.05.14 15:16:19 -07'00'</small>	
Representative for AFRC	Tom Horn	THOMAS HORN <small>Digitally signed by THOMAS HORN Date: 2021.05.04 12:40:05 -07'00'</small>	
Representative for GRC	Dave Taylor	DAVID TAYLOR <small>Digitally signed by DAVID TAYLOR Date: 2021.04.25 20:58:18 -04'00'</small>	
Representative for GSFC	Jim Loughlin	JAMES LOUGHLIN <small>Digitally signed by JAMES LOUGHLIN Date: 2021.04.29 09:31:53 -04'00'</small>	
Representative for JSC	Dale Roberts	DALE ROBERTS <small>Digitally signed by DALE ROBERTS Date: 2021.04.20 14:52:50 -05'00'</small>	
Representative for KSC	Dan Ciarlariello	DANIEL CIARLARIELLO <small>Digitally signed by DANIEL CIARLARIELLO Date: 2021.05.06 13:11:31 -04'00'</small>	

Representative for LaRC	Scott Hill	Scott Hill	Digitally signed by Scott Hill Date: 2021.04.26 14:00:14 -04'00'
Representative for MSFC	Ray Shaughnessy	Shaughnessy, Raymond W. (MSFC-ET01)	Digitally signed by Shaughnessy, Raymond W. (MSFC-ET01) Date: 2021.04.19 14:26:52 -05'00'
Representative for NMO	Chris Bonniksen	CHRISTINE BONNIKSEN	Digitally signed by CHRISTINE BONNIKSEN Date: 2021.05.04 11:09:43 -07'00'
Rep. for External Radiation	Jonny Pellish	JONATHAN PELLISH	2021.04.19 14:16:25 -04'00'
SETMO Director	Michael Mastaler	MICHAEL MASTALER	Digitally signed by MICHAEL MASTALER Date: 2021.04.19 12:26:30 -04'00'

Revision 2

Date	Event	Change	Addendum	Term Review	Sponsoring MDAA Sign	Participating MDAA(s) Sign	Center Director(s) Sign	MSC Chair Sign	CIO Sign when req'd
10/14/20	Initial Signatures	None	None	No	Yes	Yes	Yes	Yes	NR
12/29/20	Exclusion Exercise	Rev. 1	Yes	No	SETCB Rep	SETCB Rep	SETCB Rep	No	NR
4/1/21	Meaning of Exclusion Exercise	Rev. 2 (see below)	Yes	No	SETCB Rep	SETCB Rep	SETCB Rep	No	NR

Revision 2 documents the conditions on the capability components that were excluded.

Section	Page	From	To	Comment
Background	5		Although these excluded assets are no longer in the SETMO Tier 2 and therefore not subjected to the requirements of this CPCA, the excluded assets do adhere to CPM Policy and are included in cognizance/inventory activities and alignment assessments and decisions.	Added the language in the "To" column to the new paragraph added in Revision 1.
13.0 CPCA Activities Log			Rev.1, SETCB Rep	Added to Change Log

Revision 2 SETCB Signature Block

SETCB Role	SETCB Member	Signature	Date
Chair	Joel Carney	Joel Carney	Digitally signed by Joel Carney Date: 2021.05.04 13:00:12 -04'00'
Executive Secretary	Geoff Husk	GEOFFREY HUSK	Digitally signed by GEOFFREY HUSK Date: 2021.04.22 15:03:03 -04'00'
Representative for ARMD	Jon Montgomery	JON MONTGOMERY	Digitally signed by JON MONTGOMERY Date: 2021.04.22 17:31:47 -04'00'
Representative for HEOMD	Benjy Neumann	BENJAMIN NEUMANN	Digitally signed by BENJAMIN NEUMANN Date: 2021.04.28 14:50:23 -04'00'

Representative for SMD	Karen Flynn	KAREN FLYNN	Digitally signed by KAREN FLYNN Date: 2021.05.04 12:54:10 -04'00'
Representative for STMD	Prasun Desai	PRASUN DESAI	Digitally signed by PRASUN DESAI Date: 2021.04.28 09:49:34 -04'00'
Representative for ARC	George Raiche	GEORGE RAICHE	Digitally signed by GEORGE RAICHE Date: 2021.05.14 15:17:07 -07'00'
Representative for AFRC	Tom Horn	THOMAS HORN	Digitally signed by THOMAS HORN Date: 2021.05.04 12:40:41 -07'00'
Representative for GRC	Dave Taylor	DAVID TAYLOR	Digitally signed by DAVID TAYLOR Date: 2021.04.25 21:01:41 -04'00'
Representative for GSFC	Jim Loughlin	JAMES LOUGHLIN	Digitally signed by JAMES LOUGHLIN Date: 2021.04.29 09:44:38 -04'00'
Representative for JSC	Dale Roberts	DALE ROBERTS	Digitally signed by DALE ROBERTS Date: 2021.04.19 16:29:38 -05'00'
Representative for KSC	Dan Ciarlariello	DANIEL CIARLARIELLO	Digitally signed by DANIEL CIARLARIELLO Date: 2021.05.06 13:12:15 -04'00'
Representative for LaRC	Scott Hill	Scott Hill	Digitally signed by Scott Hill Date: 2021.04.26 14:01:32 -04'00'
Representative for MSFC	Ray Shaughnessy	Shaughnessy, Raymond W. (MSFC-ET01)	Digitally signed by Shaughnessy, Raymond W. (MSFC-ET01) Date: 2021.04.19 14:27:27 -05'00'
Representative for NMO	Chris Bonniksen	CHRISTINE BONNIKSEN	Digitally signed by CHRISTINE BONNIKSEN Date: 2021.05.04 11:32:55 -07'00'
Rep. for External Radiation	Jonny Pellish	JONATHAN PELLISH	2021.04.19 14:16:10 -04'00'
SETMO Director	Michael Mastaler	MICHAEL MASTALER	Digitally signed by MICHAEL MASTALER Date: 2021.04.19 12:27:09 -04'00'