

1 PROGRAMMATIC AGREEMENT
2 AMONG
3 THE NATIONAL AERONAUTICS AND SPACE ADMINISTRATION,
4 THE ADVISORY COUNCIL ON HISTORIC PRESERVATION,
5 AND THE
6 NATIONAL CONFERENCE OF STATE HISTORIC PRESERVATION OFFICERS,
7 REGARDING
8 THE MANAGEMENT OF NASA ASSETS NATIONWIDE
9

10
11 PREAMBLE

12
13 RECITALS

14
15 STIPULATIONS

16
17 I. Applicability

- 18 A. Participating Centers
- 19 B. Exclusion of Projects Affecting National Historic Landmarks (NHLs)
- 20 C. Applicable Project Types

21
22 II. Roles and Responsibilities

- 23 A. NASA
- 24 B. Consulting Parties

25
26 III. Planning-Level Surveys and Property Management Tools

- 27 A. Built Environment
- 28 B. Archaeology

29
30 IV. Incorporation of Historic Properties in Center Planning

- 31 A. Center Master Plan
- 32 B. Integrated Cultural Resources Management Plan
- 33 C. Periodic Construction of Facilities (CoF) Program Review

34
35 V. Individual Project Review – Initial Review

- 36 A. Initial Screening for Programmatic Allowance Applicability
- 37 B. Identification of Affected Properties

38

- 39 VI. Individual Project Review – Projects Outside of Heritage Zones
- 40
- 41 VII. Individual Project Review – Exterior Modification and New Construction Inside Heritage Zones
- 42
- 43 VIII. Individual Project Review – All Other Projects Inside Heritage Zones
- 44
- 45 IX. Individual Project Review – Consultation
- 46 A. Notification Letter
- 47 B. Resolving Objections
- 48
- 49 X. Treatment Measures
- 50 A. Programmatic Mitigation
- 51 B. Heritage Zone Mitigation Plan
- 52 C. Recordation of Category 1 Assets
- 53 D. Archaeology Mitigation Plan
- 54

55 ADMINISTRATIVE CLAUSES

- 56
- 57 XI. General Provisions
- 58 XII. Training
- 59 XIII. Qualifications for Survey and Evaluation
- 60 XIV. Archaeological Monitoring
- 61 XV. Unanticipated Discoveries
- 62 XVI. Annual Reporting
- 63 XVII. Adoptability
- 64 XVIII. Anti-Deficiency Act
- 65 XIX. Handling of Controlled Unclassified Information
- 66 XX. Duration
- 67 XXI. Dispute Resolution
- 68 XXII. Amendments
- 69 XXIII. Termination
- 70

71 SIGNATURES

72

73 APPENDICES

74

75 APPENDIX A Definitions

76 APPENDIX B APA Consulting Parties

77	APPENDIX C	Indian Tribes Invited to Consult on the APA
78	APPENDIX D	NASA Centers
79	APPENDIX E	Individual Project Review Flow Charts
80	APPENDIX F	Asset Categorization
81	APPENDIX G	NASA FCCS Class Codes
82	APPENDIX H	Programmatic Allowances
83	APPENDIX I	Annual Report (APA-Level)
84	APPENDIX J	Participating Centers
85	APPENDIX K	Heritage Zones
86	APPENDIX L	Center Asset List
87	APPENDIX M	Annual Report (Center-Level)

DRAFT

88 PROGRAMMATIC AGREEMENT
89 AMONG
90 THE NATIONAL AERONAUTICS AND SPACE ADMINISTRATION,
91 THE ADVISORY COUNCIL ON HISTORIC PRESERVATION,
92 AND THE
93 NATIONAL CONFERENCE OF STATE HISTORIC PRESERVATION OFFICERS,
94 REGARDING
95 THE MANAGEMENT OF NASA ASSETS NATIONWIDE
96
97

98 PREAMBLE
99

100 National Aeronautics and Space Administration (NASA) Centers are active research institutions that have
101 developed around Highly Technical or Scientific Facilities (HTSF) and as such the design, construction,
102 and physical appearance of NASA Centers are determined largely by functional needs. The challenges
103 facing agencies like NASA were acknowledged in the 1991 Advisory Council on Historic Preservation
104 (ACHP) publication *Balancing Historic Preservation Needs with the Operations of Highly Technical or*
105 *Scientific Facilities*, prepared in response to a Congressional request seeking counsel on “how a balance
106 could be struck between the preservation of physical reminders of the scientific legacy of the United
107 States and the ongoing operation and upgrading of scientific and technical research facilities.” The
108 ACHP publication aimed to demonstrate how historic HTSF could be managed consistent with the
109 NHPA, in particular Section 106, if the respective parties—preservation regulators and agency resource
110 managers—understood and accounted for one another’s goals. A major theme in this publication was
111 the acknowledgement that modification is expected and necessary to maintain active use of HTSF.
112

113 As an agency dedicated to the fields of aeronautics research, human exploration and operations,
114 science, and space technology, NASA must utilize its built assets in a manner that is often at odds with
115 traditional historic preservation approaches. NASA routinely modifies, upgrades, reconfigures,
116 cannibalizes, and replaces its resources. Traditional approaches to preservation are often not feasible.
117 Alteration inconsistent with the Secretary of the Interior’s (SOI’s) Standards for the Treatment of Historic
118 Properties is identified as a potential adverse effect under Section 106, but the SOI standards were
119 written with traditional historic buildings and structures in mind. In the case of HTSF, modification that
120 enables continued use should be viewed as a character-defining feature (CDF) rather than an adverse
121 effect, as it is the active use of the asset that ensures its preservation.
122

123 Compounding the challenges of managing HTSF is the fact that NASA assets are more likely to meet
124 National Register of Historic Places (NRHP) Criteria Consideration G (CCG) because of the agency’s
125 extraordinary mission. According to the NRHP Criteria, properties less than 50 years of age are not
126 normally eligible for listing unless they are exceptionally important. Acknowledging the importance of
127 its unique assets, NASA completed an agency-wide evaluation of 335 Space Shuttle Program-related
128 assets in anticipation of the sunset of the program in 2011. The majority of these assets were less
129 than 50 years of age at the time of the evaluation, but this still represents a relatively small percentage
130 of NASA’s approximately 2,900 U.S. real property assets less than 50 years of age in 2023.
131

132 NRHP evaluation of assets less than 50 years of age, regardless of the type, presents a number of
133 challenges. As a result, it has become common practice among federal agencies to focus Section 110
134 surveys on properties 50 years of age and older—and for most agencies, this is justifiable given the low
135 potential for its resources to be NRHP eligible under CCG. This is not the case for NASA, and traditional
136 NRHP evaluation of all assets under CCG is not feasible. In response to this challenge, NASA has
137 developed a probability model that assesses the likelihood of its assets less than 50 years of age to be
138 NRHP eligible.

139
140 Developed in consultation with the ACHP, NCSHPO, and other consulting parties, the Resource
141 Significance Framework (RSF) analyzed a representative sample of NASA’s exceptionally important
142 activities and achievements of the preceding 50-year period (i.e., since 1973) and associated property
143 types to identify objective and readily available data points that correlate to potential NRHP eligibility.
144 A key data point was derived from NASA’s Facility Classification Coding System (FCCS), which
145 categorizes all real property assets based upon their function. Data points were used to develop a four-
146 factor numerical rating (RSF Model) that ranks assets according to their potential significance. NASA
147 finalized the RSF in 2022 and intends to use the RSF Model to proactively identify assets less than 50
148 years of age that may require additional consideration should they be within the Area of Potential Effects
149 (APE) of an undertaking.

150
151 NASA’s built infrastructure is also aging. The nature of NASA’s activities means that built assets age into
152 obsolescence in a relatively short period of time without continual investment. Once an asset reaches
153 40 years of age—as roughly half of NASA’s assets have—NASA assumes that it has a declining capacity
154 to perform the function for which it was designed. Mission-essential assets are prioritized for regular
155 maintenance, repair, and upgrades to keep them functional. While work can sometimes be deferred in
156 an office or storage building without compromising the mission, that is not the case for HTSF and other
157 purpose-built assets like laboratories, testing facilities, and buildings housing highly specialized
158 scientific activities that, if allowed to decline, would severely undermine NASA’s ability to carry out its
159 mission. While NASA’s real property portfolio ages and the cost of maintenance and upgrades
160 increases, NASA’s budget has remained flat, leaving limited funding to go towards assets that are not
161 mission-critical, many of which are obsolete historic properties.

162
163 Furthermore, in 2015 the Office of Management and Budget released the *National Strategy for the*
164 *Efficient Use of Real Property* (National Strategy), which is the federal framework to improve real property
165 management by freezing growth of the federal real property inventory, measuring performance to
166 identify opportunities for improvements in efficiency, and finally reducing the size of the inventory
167 through consolidation, colocation, or disposal of properties. The National Strategy’s companion policy
168 is *Reduce the Footprint*, which requires federal agencies to aggressively dispose of surplus properties,
169 make more efficient use of the Government’s real property assets, and reduce the total square footage
170 of their domestic office and warehouse inventory relative to an established baseline. As a result, the
171 NASA Mission Support Council (MSC) has aggressively promoted rightsizing through facilities
172 consolidation and is undertaking an agency-wide review of assets for the purpose of identifying those
173 to sustain, invest in, outgrant, or divest.

174

175 The purpose of this Agencywide Programmatic Agreement (APA) is to create an alternate process by
176 which NASA can meet its responsibilities to manage its U.S. real property assets under Sections 106
177 and 110 of the NHPA in a manner that accommodates NASA’s mission, and addresses the unique
178 challenges of managing its historic properties in a traditional manner. The APA includes the following
179 components:

180

181 • It establishes parameters that reflect the HTSF nature of NASA Centers and assets;

182

183 • It incorporates an approach to historic property identification that utilizes traditional
184 evaluation and predictive modeling, so that the agency may focus limited financial and
185 personnel resources on the small percentage of its assets that are historic rather than
186 on demonstrating the lack of significance of the majority;

187

188 • It reinforces the consideration of alternatives to adverse effects in consultation with
189 Section 106 stakeholders at the early stages of asset planning; and

190

191 • It establishes programmatic mitigation measures to address cumulative effects and
192 standard project-based mitigation that builds upon NASA’s already robust recordation
193 and information-sharing infrastructure to maximize broad public access, utility,
194 engagement, and appreciation of NASA’s remarkable history.

195

196 The APA has been developed as a management approach that fosters more meaningful integration of
197 historic properties into NASA’s already robust project planning and cultural resources management
198 infrastructure. It strengthens the Center master planning process, reinforces the value of cultural
199 resources survey and evaluation, and enhances public access to and understanding of NASA’s history
200 as conveyed through the built environment.

201

202

203

RECITALS

204

205 **WHEREAS**, NASA undertakes activities in the areas of aeronautics research, human exploration and
206 operations, science, and space technology for the peaceful benefit of all mankind, and these activities
207 depend upon the maintenance and continued use of HTSF at its Centers across the country (Appendix
208 D – NASA Centers) in state-of-the-art condition; and

209

210 **WHEREAS**, NASA Centers are active research institutions that have developed around HTSF, and the
211 design, construction, and physical appearance of HTSF are determined largely by functional needs and
212 not by aesthetics; and

213

214 **WHEREAS**, the unique and specialized purpose of NASA Centers, and their HTSF character and uses,
215 merit a management approach that provides flexibility to the agency in meeting its responsibilities under
216 Sections 106 and 110 of the National Historic Preservation Act of 1966, as amended (54 USC 306108)
217 (NHPA) and that acknowledges the particular constraints within which NASA operates its Centers; and

218 **WHEREAS**, NASA recognizes that there are discrete areas within NASA Centers that have a unique and
219 distinguishable design aesthetic (Heritage Zones) (Appendix K – Heritage Zones), and that measures
220 should be taken to preserve that aesthetic; and

221
222 **WHEREAS**, to meet agency needs and federal real property directives, NASA is applying a strategy for
223 an agency-wide, mission-driven, and affordable real property portfolio based upon an evaluation of
224 mission relevance, future need, sustainment costs, and condition of each of its Assets to determine
225 whether to sustain, invest, outgrant, or divest; and

226
227 **WHEREAS**, NASA has determined that its property management activities are undertakings requiring
228 review pursuant to 36 CFR Part 800, the regulations implementing Section 106; and

229
230 **WHEREAS**, NASA integrates the consideration of historic properties into its facilities planning at both the
231 agency and the Center level so that opportunities to avoid adverse effects may be explored in advance
232 of such activities, such as reuse by NASA, lease to an outside entity, and transfer to another federal
233 agency, and placing the asset on standby or mothball status; and

234
235 **WHEREAS**, the decision to sustain, invest, outgrant, or divest Assets is substantially determined years in
236 advance of the action being carried out through decisions made during the Center master planning
237 process, and NASA has determined that consideration of feasible alternatives to adverse effects should
238 occur at these early planning stages during the development of the Center Master Plan (CMP); and

239
240 **WHEREAS**, NASA has developed the APA to streamline the Section 106 process so that its limited
241 resources may be used to maximum public benefit consistent with federal agency responsibilities under
242 the NHPA; and

243
244 **WHEREAS**, the APA will apply to multiple individual but similar undertakings across multiple states, such
245 that the use of a programmatic agreement is appropriate to complete the Section 106 process (36 CFR
246 § 800.14(b)(1)(i)); and

247
248 **WHEREAS**, the APA does not invalidate NASA's other programmatic agreements or any other of its
249 Section 106 agreements, including project-specific memoranda of agreement (MOAs); and

250
251 **WHEREAS**, NASA consulted with the ACHP and the National Conference of State Historic Preservation
252 Officers (NCSHPO) pursuant to 36 CFR Part 800; and

253
254 **WHEREAS**, NASA invited federally recognized Indian Tribes (Tribes) (Appendix C – Indian Tribes Invited
255 to Consult on the APA) and Tribal Historic Preservation Officers (THPOs) with a demonstrated interest
256 in NASA undertakings at its Centers nationwide to consult on the development of this APA pursuant to
257 36 CFR Part 800; and

258
259 **WHEREAS**, NASA invited the National Trust for Historic Preservation (NTHP) and the National
260 Association of Tribal Historic Preservation Officers (NATHPO) to consult (Appendix B – APA Consulting
261 Parties); and

262 **WHEREAS**, NASA provided opportunities for public review and comment through formal public notice
263 in the Federal Register [dates of publication here], and through the NASA Environmental Management
264 Division (EMD) Cultural Resources Management web page; and
265

266 **NOW, THEREFORE**, NASA, ACHP, and NCSHPO agree that implementation of the APA in accordance
267 with the following stipulations will allow NASA to meet its responsibilities under Section 106 of the NHPA
268 for the undertakings subject to the APA.
269

270 STIPULATIONS

271
272 NASA will ensure the following stipulations are carried out for any undertaking for which this APA is
273 used to comply with Section 106.
274

275 I. APPLICABILITY

276 A. Participating Centers

277
278 Centers to which the APA applies shall be referred to in the APA as Participating Centers. The
279 APA shall be used to satisfy Section 106 requirements for Projects at NASA Centers that do not
280 have an executed Center-wide programmatic agreement (Appendix J – Participating Centers).
281 If an existing Center-wide programmatic agreement expires or is terminated, that Center shall
282 thereafter be governed by the APA—i.e., it shall be a Participating Center. Should a Center-
283 wide programmatic agreement be executed at a Participating Center, the APA shall no longer
284 apply at that Center.
285

286
287 Procedures for Centers opting-in to the APA after its execution are provided in Stipulation XVII
288 (Adoptability).
289

290 B. Exclusion of Projects Affecting National Historic Landmarks (NHLs)

291
292 The APA shall not apply to NHLs, including those governed by the 1989 *Programmatic*
293 *Agreement among the National Aeronautics and Space Administration, the National*
294 *Conference of State Historic Preservation Officers, and the Advisory Council on Historic*
295 *Preservation* (NHL PA), so long as that agreement remains in effect.
296

297 C. Applicable Project Types

298
299 Projects governed under the APA will fall under one or more of the Project types (APA Project
300 Types) described below.
301
302

303
304
305
306
307
308
309
310
311
312
313
314
315
316
317
318
319
320
321
322
323
324
325
326
327
328
329
330
331
332
333
334
335
336
337
338
339
340
341
342
343
344
345
346

1. Repair & Maintenance

Repair & Maintenance activities are those carried out on a routine or regular basis to sustain an Asset for its continued use. Repair & Maintenance Projects are generally localized, small-scale and in-kind actions affecting an Asset, but may also include larger-scale activities affecting a substantial portion of an Asset carried out in response to sudden damage (e.g., weather, accidental) or structural and/or material failure. Repair & Maintenance Projects should not alter the physical appearance of an Asset or diminish its historical integrity, and should not go beyond the existing footprint. Repair & Maintenance includes, but is not limited to: exterior painting; repair of windows and doors, including caulking and weather stripping; repair of roof cladding and sheeting, flashing, gutters, soffits, and downspouts with no change in roof pitch or configuration; routine road maintenance, repair, and resurfacing where work is confined to previously maintained surfaces; and changes to water systems such as water wells, cooling water systems, potable water systems, storm sewers, waste water treatment systems, plant drainage, and plumbing.

2. Interior Modification

Interior Modification is any activity physically affecting an Asset or the contents therein and occurring entirely within the building envelope. Interior Modifications have no impact on the exterior features of an Asset and require no ground disturbance. Interior modification includes, but is not limited to: reconfiguring floor plans; replacing mechanical systems; removing equipment, furniture, and other personal property; renovating bathrooms and kitchens; and seismic retrofits.

3. Exterior Modification within Asset Envelope

Exterior Modification within Asset Envelope includes changes to the exterior of an Asset that do not extend beyond the existing Asset envelope, do not result in additional square footage horizontally or vertically, and do not require ground disturbance beyond the existing footprint. Exterior Modification within Asset Envelope includes, but is not limited to: removal and replacement of exterior materials (e.g., roof sheathing); changes in fenestration (e.g., creating a new window opening or door); removal, replacement, or addition of exterior features (e.g., window replacement, addition of solar shades, removal of entrance canopy, addition of a vent); application of new materials to exterior walls (e.g., synthetic stucco); and replacement of utility lines within an existing utility corridor.

4. New Construction

New Construction includes changes to the exterior of an Asset outside of the existing envelope and utility corridors, resulting in additional square footage horizontally or vertically, an increase in interior space, or greater overall mass and/or size (i.e.,

347 additions). It also includes construction of entirely new built Assets. New construction
348 includes, but is not limited to: raising a roof, adding rooms or stories, and enclosing
349 exterior spaces to increase usable space; constructing a building in a former parking
350 lot adjacent to an existing Asset; constructing new sources of power such as a solar
351 farm or substation; and new construction on a previously undeveloped and/or
352 undisturbed site. This Project Type involves ground disturbance.

353
354 5. Other Ground Disturbing Activities
355

356 Other Ground Disturbing Activities are those that are not associated with New
357 Construction. This may include, but is not limited to: environmental site investigations;
358 environmental testing, monitoring, and remediation; ground water well installation;
359 soil relocation; and vegetation removal such as that required to create lines-of-sight.

360
361 6. Mothballing
362

363 Mothballing may be undertaken on Assets that are temporarily not in use and have an
364 anticipated reactivation period of more than 36 months. Aimed at preventing
365 significant deterioration, Mothballing includes such activities as: preparation of utility
366 systems and collateral equipment for long-term inactivation; equipment of the interior
367 with appropriate environmental controls; removal of hazardous materials;
368 maintenance of the integrity and appearance of the exterior shell; and assessment of
369 personal property contained therein to determine if it should remain with the facility,
370 be reutilized, or be disposed. Mothballing is providing the least level of maintenance
371 required to maintain functionality for possible future use.

372
373 7. Demolition
374

375 Demolition is defined as eliminating or reducing underutilized and obsolete real
376 property assets or equipment no longer required for agency missions. Demolition may
377 apply to part of an asset or the total asset. This Project Type may include ground
378 disturbance.

379
380 8. Outgrant
381

382 Outgrant is the non-permanent transfer of real property rights from NASA to others by
383 means of lease (or any other form of acceptable legal instrument that recognizes
384 NASA as the landlord and the lessee as the tenant); permit; easement; right-of-way;
385 license; Space Act Agreement (SAA); or agreement such as memorandum of
386 understanding (MOU), memorandum of agreement (MOA), or concessionaire
387 agreement. The most common Outgrant for NASA Assets is a lease, which may or
388 may not include restrictions relating to the Asset's historic status. Outgrant may result
389 in, but is not limited to: shared use of a facility; sole use of a facility; granting of new
390 utility easements; or construction of buildings on vacant land.

391
392
393
394
395
396
397
398
399
400
401
402
403
404
405
406
407
408
409
410
411
412
413
414
415
416
417
418
419
420
421
422
423
424
425
426
427
428
429
430

9. Transfer

This Project Type is the permanent transfer of real property rights from NASA to others. Transfer may result in, but is not limited to: facility transfer to another federal entity with Section 106 responsibilities; or the divestment of real property to a non-federal entity where NASA no longer has control over the asset.

II. ROLES AND RESPONSIBILITIES

A. NASA

1. NASA Federal Preservation Officer

NASA’s Cultural Resource Management Program is directed by the agency’s Federal Preservation Officer (FPO), EMD, NASA Headquarters. The FPO provides guidance to the Cultural Resource Managers (CRMs) at each Center. The FPO is responsible for overseeing the implementation of the APA for the agency, including the development of APA programmatic mitigation, and APA-Level Annual Reporting. The FPO shall serve as the liaison between NASA, the ACHP, and the NCSHPO for the purposes of APA implementation, and shall be NASA’s decision-maker on amendments or disputes arising from the APA. The FPO shall also notify the NCSHPO and ACHP in writing when the FPO is engaged to resolve disputes at the Center level.

2. NASA Center Cultural Resource Manager

The Center CRM is responsible for implementing NASA Cultural Resource Management Program activities at the Centers. The Center CRM shall be responsible for carrying out the terms of the APA at the Center level, including participation in Center master planning efforts, coordinating with Center Construction of Facilities (CoF) program managers and facilities project managers on the requirements of the APA, and Center-Level Annual Reporting. The CRM is the primary point-of-contact between NASA and Center Consulting Parties, including the relevant State Historic Preservation Officer (SHPO) and Tribes. The Center CRM shall take the lead in ensuring that Gate-to-Gate (G2G) Surveys are carried out consistent with the terms of the APA. The Center CRM is also responsible for ensuring that NRHP evaluations are carried out by qualified personnel, and for entering, updating, and maintaining accurate data, including Asset NRHP evaluation status in relevant databases.

431
432
433
434
435
436
437
438
439
440
441
442
443
444
445
446
447
448
449
450
451
452
453
454
455
456
457
458
459
460
461
462
463
464
465
466
467
468
469
470
471
472
473
474

B. Consulting Parties

1. APA Consulting Parties

The consulting parties to the APA are the ACHP, NCSHPO, NATHPO, the NTHP, and the federally recognized Tribes that elected to participate (Appendix C – Indian Tribes Invited to Consult on the APA). The APA Consulting Parties shall consult with respect to the major provisions of the APA, but shall not participate in consultation at the Center level, unless specifically called to do so under the terms of the APA.

2. Center Consulting Parties

Center Consulting Parties are consulting parties with a demonstrated interest in historic properties at a Participating Center, with which NASA shall consult under the applicable terms of the APA. Center Consulting Parties shall include the respective SHPO for the state in which the Participating Center is located, Center Consulting Tribes per Stipulation II.B.3 (Center Consulting Parties), and other parties consistent with 36 CFR § 800.2. The Center CRM will maintain a list of Center Consulting Parties and will ensure that they are identified in the Center Integrated Cultural Resources Management Plan (ICRMP).

3. Center Consulting Tribes

Center Consulting Tribes have a demonstrated religious or cultural interest in historic and cultural properties at a Participating Center, especially as it relates to ground disturbance.

4. Advisory Council on Historic Preservation

At any time, any of the parties described in Stipulations II.B.1-3 may request ACHP involvement or comment on the implementation of the APA in general or on Projects governed by the procedures set forth in the APA. Such a request for ACHP involvement shall be in writing, copying all signatories, the relevant SHPO, and Center Consulting Parties. If ACHP elects to participate in Project consultation, it shall do so as a Center Consulting Party.

III. PLANNING-LEVEL SURVEYS AND PROPERTY MANAGEMENT TOOLS

The following planning-level surveys and property management tools will be implemented by NASA to front-load identification efforts—both formal survey and evaluation as well as predictive modeling—thereby facilitating early planning and efficient execution of the Project review process as stipulated in this APA.

475 **A. Built Environment**

476
477
478
479
480
481
482
483
484
485
486
487
488
489
490
491
492
493
494
495
496
497
498
499
500
501
502
503
504
505
506
507
508
509
510
511
512
513
514
515
516
517
518

The APA establishes two management concepts for Assets at Participating Centers: Management Categories, which are assigned to individual Assets based upon known or probable NRHP significance; and Heritage Zones, which are areas within Participating Centers that are recognizable for their unique and distinguishable architectural design aesthetic.

1. Management Categories

Management Categories are defined as follows:

- a. Category 1 Assets are individually listed in the NRHP, or are known or likely to be individually eligible for listing in the NRHP;
- b. Category 2 Assets are listed in the NRHP as contributing resources to a historic district, or are known or likely to be eligible for listing in the NRHP as such; and
- c. Category 3 Assets are known or likely to be ineligible for listing in the NRHP.

Assets that have been evaluated for listing in the NRHP will be assigned a Management Category based upon that evaluation. Assets that have not been evaluated will either be assigned a Management Category based upon probability, or will remain uncategorized until formally evaluated.

The process for categorizing Assets is outlined in Appendix F – Asset Categorization. Unevaluated Assets less than 50 years of age are categorized based on NASA’s RSF Model rating. Unevaluated Assets that have reached 50 years of age will be categorized based on their NASA FCCS Class Code (Appendix G – NASA FCCS Class Codes) as shown in the agency Real Property Management System (RPMS). Those in Facility Classes 1, 2, 3, or 6 are considered the most likely to be individually eligible for listing in the NRHP, and shall not be categorized until they are formally evaluated, either as part of a G2G Survey per Stipulation III.A.4 (G2G Architectural Surveys), or at such time as they are within the APE of a Project as identified under Stipulation V (Individual Project Review: Initial Review).

2. Asset Lists

The assignment of Management Categories shall be documented at the Center level in an Asset List, to be appended to the APA (Appendix L – Center Asset List). Upon execution of the APA, a Participating Center shall manage its Assets consistent with the appended Asset List until such time as a G2G Survey is completed under the terms of the APA per Stipulation III.A.4 (G2G Architectural Surveys).

519
520
521
522
523
524
525
526
527
528
529
530
531
532
533
534
535
536
537
538
539
540
541
542
543
544
545
546
547
548
549
550
551
552
553
554
555
556
557
558
559
560
561
562

Asset Lists will be revised and/or updated when one of the following occurs:

- a. A new Asset List is produced as part of the G2G Survey Report under Stipulation III.A.4 (G2G Architectural Surveys);
- b. An Asset is evaluated during Individual Project Review, in which case the Asset List will be updated to reflect the new information; or
- c. The Center CRM and SHPO agree to do so.

Once revised and/or updated, the Center CRM will append the Asset List to the APA (Appendix L – Center Asset List), copying the SHPO and Center Consulting Parties.

3. Heritage Zones

Heritage Zones are defined as discrete areas within NASA Centers that have a unique and distinguishable design aesthetic and are listed in Appendix K – Heritage Zones. They shall be managed under the terms of the APA consistent with Stipulation VII (Individual Project Review: Exterior Modification and New Construction Inside Heritage Zones) and Stipulation VIII (Individual Project Review: Other Projects Inside Heritage Zones). The boundaries of Heritage Zones may be revised if the Center CRM and the SHPO agree to do so. If so, the Center CRM shall update Appendix K – Heritage Zones per Stipulation XXII (Amendments).

4. Gate-to-Gate Architectural Surveys

Within five years of the execution of the APA, a gate-to-gate survey of Assets (G2G Survey) shall be performed at Participating Centers. Thereafter, NASA shall update G2G Surveys every ten years. The survey requirement may be waived if it has been less than ten years since the last G2G survey.

a. Scope of G2G Surveys

As G2G Surveys will support the implementation of the APA, NRHP evaluations will be performed consistent with the following.

- i. Unevaluated Assets 40 years of age or older, that are identified in the agency RPMS in Facility Classes 1, 2, 3 and 6 (Appendix G – NASA FCCS Class Codes) shall be the priority in G2G Surveys. Assets will be evaluated as individual resources within the historic contexts most likely to be relevant to the Asset, and as resources that contribute to a historic district. If found individually eligible, the level of significance (i.e., national, State, and/or local) shall be specified.

563 ii. NASA will not evaluate Assets in the agency RPMS in Facility
564 Classes 4, 5, 7 or 8, except as contributing resources to a newly
565 identified or updated historic district. These Assets will automatically be
566 managed as Category 3 Assets unless otherwise identified in G2G
567 Surveys.
568

569 iii. G2G Surveys shall preliminarily identify Assets less than 40
570 years of age deemed likely to be eligible under NRHP Criterion C and
571 CCG as the work of a master and/or for exceptional architectural
572 design. This need not be a full NRHP evaluation; rather, it is intended
573 only to inform the assignment of a Management Category until a
574 formal NRHP evaluation is performed.
575

576 b. Survey Reports
577

578 G2G Survey Reports shall include a comprehensive list of all Assets (Asset List)
579 with the following information.
580

581 i. Building number, building name, date of construction, and
582 FCCS Class Code.
583

584 ii. SHPO resource or site number, if applicable.
585

586 ii. Individual NRHP evaluation status, applicable Criteria, and
587 level of significance; and contributing or non-contributing status within
588 an identified historic district and the name of the historic district.
589

590 iii. For Assets evaluated prior to the current survey effort, the date
591 of their evaluation, and date of SHPO concurrence, if known. If SHPO
592 concurrence was not received, the lack of SHPO objection will be
593 noted.
594

595 iv. Assets preliminarily identified under Criterion C and CCG for
596 architecture.
597

598 v. The assigned Management Category under which the Asset
599 will be managed. Any changes to previously assigned Management
600 Categories will be noted.
601

602 vi. If relevant, Assets located within a Heritage Zone, the name of
603 the Heritage Zone, and any changes to boundaries of the Heritage
604 Zone.
605

606
607
608
609
610
611
612
613
614
615
616
617
618
619
620
621
622
623
624
625
626
627
628
629
630
631
632
633
634
635
636
637
638
639
640
641
642
643
644
645
646
647
648
649

G2G Survey Reports shall include maps that show the location of all Assets coded according to Management Category and the boundaries of Heritage Zones.

G2G Survey Reports shall be prepared consistent with applicable SHPO standards. Should the SHPO standards be in conflict with the requirements of the APA, then the APA shall take precedence.

c. Review of G2G Survey Reports

The Center CRM shall submit the G2G Survey Report electronically to the SHPO, copying the Center Consulting Parties. The SHPO review period shall be 60 days, unless the Center CRM and the SHPO agree in writing to a specified extension. During this review period, the SHPO may request a site visit to aid in their review of the G2G Survey Report.

i. No SHPO Objection

If the SHPO does not object in writing within the review period, the Center CRM shall finalize the G2G Survey Report per Stipulation III.A.4.d (Final G2G Survey Reports).

ii. SHPO Objection

If within the review period the SHPO objects to NASA’s findings, then it shall do so in writing to the Center CRM, copying the Center Consulting Parties, indicating the findings that are in dispute. The Center CRM shall either accept the SHPO’s objection and revise NASA’s findings or consult to resolve the objection.

If the Center CRM elects to consult, they will schedule a conference call or meeting with the SHPO and shall invite the Center Consulting Parties to participate. The Center CRM and the SHPO shall work to reach consensus on the findings that are the subject of the dispute. If consensus is reached, the Center CRM shall finalize the G2G Survey Report consistent with that consensus.

If the Center CRM determines that consensus cannot be reached within 30 days of the consultation call or meeting, then they shall notify the FPO. The FPO shall determine whether additional consultation to reach consensus is warranted, and if so, the length of the additional consultation period. If consensus is reached within the FPO-determined consultation period, NASA shall finalize the G2G Survey Report consistent with that consensus.

650
651
652
653
654
655
656
657
658
659
660
661
662
663
664
665
666
667
668
669
670
671
672
673
674
675
676
677
678
679
680
681
682
683
684
685
686
687
688
689
690
691
692
693

If consensus is still not reached at the end of the FPO-designated consultation period, the FPO will make a decision on the subject(s) of the dispute, and NASA shall finalize the G2G Survey Report accordingly.

d. Final G2G Survey Reports

NASA’s G2G Survey Reports shall be deemed final when the Center CRM sends a copy of the finalized G2G Survey Report to the SHPO, copying the Center Consulting Parties. Findings therein shall govern NASA’s management of the built environment under the APA until the next G2G Survey Report is finalized.

B. Archaeology

1. Assessment of Completed Archaeological Studies

Within one year of APA execution, CRMs of Participating Centers shall submit all previously conducted archaeological surveys, evaluations, and predictive models (Archaeological Studies) that meet SHPO standards which have not yet received SHPO concurrence to the SHPO, copying the Center Consulting Tribes. SHPOs and the Center Consulting Tribes shall have 30 days to review and comment on the Archaeological Studies. The Center CRM shall contact the SHPO and Center Consulting Tribes to confirm their intent to comment within the 30-day review period. The Center CRM will consider requests from the SHPO and Center Consulting Tribes to extend the review period to a maximum of 45 days. At the end of the review period, if no party has objected in writing to the Center CRM, then NASA will conclude its assessment of Archaeological Studies per Stipulation III.B.1.b (Final Archaeological Studies).

If, at the end of the specified review period, the SHPO or any of the Center Consulting Tribes have objected to the findings in writing, then the Center CRM shall either accept the objection or consult to resolve the objection per Stipulation III.B.1.a (Review of Archaeological Studies).

a. Review of Archaeological Studies

The Center CRM shall schedule a meeting with the SHPO to consult regarding the disputed findings, and shall invite the Center Consulting Tribes to participate. The parties shall work to reach consensus on the findings that are the subject of the dispute. If consensus is reached, then NASA will conclude its assessment of Archaeological Studies per Stipulation III.B.1.b (Final Archaeological Studies).

694 If the Center CRM determines that consensus cannot be reached within 30
695 days of the consultation call or meeting, then they shall notify the FPO. The
696 FPO shall determine whether additional consultation to reach consensus is
697 warranted, and if so, the length of the additional consultation period. If
698 consensus is still not reached at the end of the FPO-designated consultation
699 period, the FPO will make a decision on the subject(s) of the dispute, and
700 NASA shall conclude its assessment of Archaeological Studies per Stipulation
701 III.B.1.b (Final Archaeological Studies).

702
703 b. Final Archaeological Studies

704
705 The Center CRM shall document the results of the assessment of
706 Archaeological Studies in writing, copying the SHPO and Center Consulting
707 Tribes. NASA shall thereafter use the results of the Review of Archaeological
708 Studies to create the Archaeology Management Plan described in Stipulation
709 III.B.2 (Development of Archaeological Management Plan).

710
711 2. Development of Archaeology Management Plan

712
713 Within three years of the execution of the APA, Participating Centers will create a GIS-
714 based tool that will be used to determine the need for archaeological survey or other
715 archaeological studies under the APA. The tool will include:

716
717 a. Mapping of Previous Archaeological Surveys

718
719 Each Participating Center will create a GIS data layer that designates areas
720 that have been surveyed for archaeological resources and finalized under
721 Stipulation III.B.1.b (Final Archaeological Studies).

722
723 b. Mapping of Archaeological and Cultural Sensitivity

724
725 GIS data layers will also include the results of predictive modeling finalized
726 under Stipulation III.B.1.b (Final Archaeological Studies). In the absence of a
727 predictive model finalized under Stipulation III.B.1.b., each Participating
728 Center will develop an archaeological and cultural sensitivity model. The
729 model should include all potential archaeological resources and meet the
730 standards of the respective SHPO.

731
732

733
734
735
736
737
738
739
740
741
742
743
744
745
746
747
748
749
750
751
752
753
754
755
756
757
758
759
760
761
762
763
764
765
766
767
768
769
770
771
772
773
774
775
776

Factors that may be considered in the development of the sensitivity model include, but are not limited to:

- i. Previous archaeological surveys and locations of any known sites;
- ii. Historical occupation of and/or activities in the area;
- iii. Geological characteristics of the area; and
- iv. Areas of cultural sensitivity as conveyed to the Center CRM by Center Consulting Tribes.

Participating Centers will create GIS data layers that illustrate areas that have low, moderate, or high archaeological potential based on the sensitivity model. GIS data layers capturing areas of cultural sensitivity to Tribes will be created by NASA in consultation with Center Consulting Tribes to determine the nature and scale of these areas of cultural sensitivity and any potential buffers around them.

c. Archaeological Disturbance Assessment

The archaeological disturbance assessment will identify areas with no potential for archaeological resources and areas characterized as high disturbance, moderate disturbance, and low disturbance.

- i. Areas with no potential are those where no archaeological sites are considered possible (e.g., made land or areas where very heavy grading and/or substantial removal of soil has occurred).
- ii. Areas of high disturbance are those where few-to-no archaeological sites are considered likely (e.g., areas where moderate-to-heavy grading and removal of soil has occurred, highly developed areas with a high concentration of infrastructure and underground utilities, and areas where soil remediation has occurred).
- iii. Areas of moderate disturbance are those where archaeological sites may be intact, despite some level of disturbance (e.g., infrastructure exists, but may be limited on a geographic scale both vertically and horizontally, such as a parking lot or ball field).
- iv. Areas of negligible disturbance are those where little-to-no ground disturbance has occurred (e.g., greenfield sites).

777
778
779
780
781
782
783
784
785
786
787
788
789
790
791
792
793
794
795
796
797
798
799
800
801
802
803
804
805
806
807
808
809
810
811
812
813
814
815
816
817
818
819
820

d. Review of Archaeology Management Plan

The Center CRM shall submit the draft Archaeology Management Plan electronically to the SHPO, copying the Center Consulting Tribes, for review. The SHPO and Center Consulting Tribes shall have 30 days to review the plan and provide written comments to the Center CRM. The Center CRM shall contact the Center Consulting Tribes to confirm the Tribes intent to comment within 30 days from receipt of the draft plan.

i. No Objection

If the SHPO and Center Consulting Tribes do not object within the 30-day review period, then the Center CRM shall finalize the plan and submit an electronic copy to the SHPO and Center Consulting Tribes.

ii. Objection

If the SHPO or Center Consulting Tribes object to the findings of the plan within the 30-day review period, the Center CRM shall notify the FPO. The FPO shall determine whether additional consultation to reach consensus is warranted, and if so, the length of the additional consultation period. If consensus is reached within the FPO-determined consultation period, the Center CRM shall finalize the plan consistent with that consensus and submit an electronic copy to the SHPO and Center Consulting Tribes.

If consensus is still not reached at the end of the FPO-designated consultation period, the FPO will make a decision on the subject(s) of the dispute. Thereafter the Center CRM shall finalize the plan, submit an electronic copy to the SHPO and Center Consulting Tribes.

e. Updating the Archaeology Management Plan

NASA will revise and update the GIS data set as needed, but minimally every five years. If there have been no substantive changes to a NASA Center five years after the GIS tool is completed (e.g., new construction), then the next update may be deferred for an additional five years (i.e., ten years total).

3. Using the Archaeology Management Plan

The Center CRM shall apply the data in the Archaeology Management Plan to determine the need for archaeological and cultural studies for a Project involving ground disturbance. If an area has been previously surveyed archaeologically, the Center CRM shall use the findings of that survey to complete Individual Project Review.

821 If an area has not been previously surveyed, the Center CRM shall determine the level
 822 of archaeological work that may be required consistent with the matrix below.
 823

824 ***Assessment Matrix for Areas Not Previously Surveyed***

Archaeological Sensitivity	Level of Previous Ground Disturbance			
	No Potential	High Disturbance	Moderate Disturbance	Negligible Disturbance
Low Archaeological Potential	No survey	No survey	No survey	No survey
Moderate Archaeological Potential	No survey	No survey	Archaeological survey	Archaeological survey
High Archaeological Potential	No survey	No survey	Archaeological survey	Archaeological survey

825 Irrespective of archaeological potential and disturbance, if an area has been
 826 determined to be culturally sensitive by Center Consulting Tribes, the Center CRM will
 827 consult with the Center Consulting Tribes to determine the best path forward. If a
 828 Center Consulting Tribe requests archaeological monitoring during Individual Project
 829 Review, it will be done in accordance with Stipulation XIV (Archaeological Monitoring).
 830

831
 832 4. Archaeological Survey

833 If an archaeological survey is conducted, then NASA shall do so consistent with SHPO
 834 requirements. The Center CRM will consider Center Consulting Tribe requirements, if
 835 provided in writing. The Center CRM shall submit the archaeological survey to the
 836 SHPO, and Center Consulting Tribes if precontact resources are documented, for
 837 review. SHPO and Center Consulting Tribes, if applicable, shall have 30 days to
 838 review the report and provide written comments to the Center CRM. The Center CRM
 839 shall contact the Center Consulting Tribes to confirm their intent to comment within 30
 840 days from receipt of the draft report.
 841

842
 843 a. No Objection

844 If the SHPO and Center Consulting Tribes do not object within the 30-day
 845 review period, then the Center CRM shall finalize the report, submit an
 846 electronic copy to the SHPO and Center Consulting Tribes, if applicable, and
 847 update the Archaeology Management Plan accordingly.
 848
 849
 850

851 b. Objection

852
853 If the SHPO or Center Consulting Tribes, if applicable, object to the findings
854 of the archaeological survey within the 30-day review period, the Center CRM
855 shall notify the FPO. The FPO shall determine whether additional consultation
856 to reach consensus is warranted, and if so, the length of the additional
857 consultation period. If consensus is reached within the FPO-determined
858 consultation period, the Center CRM shall finalize the report consistent with
859 that consensus, submit an electronic copy to the SHPO and Center Consulting
860 Tribes, if applicable, and update the Archaeology Management Plan
861 accordingly.

862
863 If consensus is still not reached at the end of the FPO-designated consultation
864 period, the FPO will make a decision on the subject(s) of the dispute.
865 Thereafter the Center CRM shall finalize the report, submit an electronic copy
866 to the SHPO and Center Consulting Tribes, if applicable, and update the
867 Archaeology Management Plan accordingly.
868

869 IV. INCORPORATION OF HISTORIC PRESERVATION IN CENTER PLANNING

870
871 NASA shall make a reasonable and good faith effort to identify feasible alternatives to adverse effects
872 in the earliest possible stages of Project planning. For Projects within identified Heritage Zones, NASA
873 shall give special consideration to the maintenance of the design aesthetic, and shall, to the extent
874 possible while meeting mission requirements, ensure New Construction is compatible with the
875 Heritage Zone aesthetic.

876 A. Center Master Plan (CMP)

877 1. Consulting Party Review of CMP

878
879
880
881 NASA shall engage the Center Consulting Parties during the development of the CMP
882 to allow for consideration of alternatives to avoid adverse effects to historic properties.
883 The Center CRM shall deliver a draft CMP electronically to the SHPO, copying the
884 Center Consulting Parties. The SHPO will have 30 days to review and comment upon
885 the draft. NASA shall maintain a record of potential adverse effects to historic
886 properties discussed during the CMP update process, the alternatives considered, and
887 the final recommendations integrated into the CMP.
888

889 2. Integration of Historic Properties into CMP

890
891 CMPs shall integrate information about historic properties and Heritage Zones into the
892 development plans. Heritage Zones shall be identified as areas of heightened design
893 sensitivity subject to consultation under the APA.
894

895 **B. Integrated Cultural Resources Management Plans (ICRMPs)**

896
897 Participating Center ICRMPs will be updated to include information relevant to the APA,
898 including:

- 899
900 1. A copy of the executed APA, or link to its location;
901
902 2. Asset List for the Center;
903
904 3. Maps and descriptions of Heritage Zones; and
905
906 4. Standard Operating Procedures (SOPs) for Center G2G Surveys consistent
907 with the APA.
908

909 **C. Heritage Zone Design Guidelines**

910
911 Participating Centers with Heritage Zones may elect to develop Heritage Zone Design
912 Guidelines in consultation with SHPO to manage Projects within Heritage Zones in a manner
913 that preserves the unique and distinguishable design aesthetic. Heritage Zone Design
914 Guidelines must be reviewed by and concurred with by the SHPO.
915

916 If a Heritage Zone falls within an identified NRHP-eligible or listed historic district, and that
917 Center has SHPO-approved historic district design guidelines for that historic district, then
918 those design guidelines may be used in lieu of Heritage Zone Design Guidelines.
919

920 **D. Periodic Construction of Facilities (CoF) Program Review**

921
922 The Center CoF Program Manager and the Center CRM shall meet periodically to discuss
923 Projects planned for the upcoming calendar year. At this meeting, the Center CoF Program
924 Manager and Center CRM shall identify those Projects with the potential to adversely affect
925 historic properties, and discuss the requirements of the Section 106 process for those Projects.
926 Where applicable, Center Consulting Party comments offered during Center master planning
927 and the steps taken by NASA to consider alternatives to adverse effects to historic properties
928 will be reviewed.
929

930 **V. INDIVIDUAL PROJECT REVIEW – INITIAL REVIEW**

931
932 When a Project is presented to the Center CRM for review, the Center CRM will review the Project
933 information and determine the appropriate process to be followed under the APA.
934

935 For Outgrant Projects, the Center CRM may elect to define the undertaking as the Outgrant, including
936 all Projects that are reasonably foreseeable under the Outgrant, or they may elect to treat any Project
937 that arises out of the Outgrant as an individual undertaking and proceed according to Individual
938 Project Review.

939 A flow chart for Stipulation V is included in Appendix E – Individual Project Review Flow Charts.

940

941 **A. Initial Screening for Programmatic Allowance Applicability**

942

943 If the Center CRM determines that all aspects of the Project meet the Programmatic
 944 Allowances (“excluded” Project) per Appendix H – Programmatic Allowances, then the Center
 945 CRM shall document this determination for inclusion in the Center-Level Annual Report
 946 (Appendix M – Center-Level Annual Report). The Project may proceed without further action
 947 under the APA, notwithstanding unanticipated discoveries per Stipulation XV (Unanticipated
 948 Studies). Any cumulative or adverse effects that may occur as a result of the application of a
 949 Programmatic Allowance will be mitigated through Programmatic Mitigation per Stipulation X
 950 (Treatment Measures).

951

952 If a project is not excluded from further review per a Programmatic Allowance, the Center
 953 CRM will continue to Stipulation V.B (Identification of Affected Properties).

954

955 **B. Identification of Affected Properties**

956

957 1. Defining the Project APE

958

959 The Project Area of Potential Effects (APE) shall be defined using the table below. For
 960 multi-component Projects, the APE shall be the aggregate of all component APEs.

961

Project Type	APE
Exterior Modification within Asset Envelope	Asset Envelope
New Construction	Asset Envelope, and Limits of Disturbance (LOD)
Other Ground Disturbing Activities	LOD
Demolition	Asset Envelope
Outgrant	Variable
Transfer	Asset envelope, and Parcel

962

963 2. Identification of Properties in the APE

964

965 The CRM shall consider whether any of the following are located within the APE:

966

- 967 a. A Heritage Zone (defined in Appendix K – Heritage Zones); or
- 968 b. A Category 1 Asset (per Appendix L – Center Asset List); or
- 969 c. A NRHP-eligible or potentially eligible archaeological site or Tribal
- 970 cultural resource.
- 971
- 972

973 If a built Asset within the APE is not included in the Asset List, then the Center CRM
974 shall assign a Management Category per Appendix F – Asset Categorization. Should
975 Appendix F indicate that the Asset should be evaluated, then the Center CRM shall
976 either: assume that the Asset is individually eligible for listing in the NRHP (i.e.,
977 Category 1); or formally evaluate the Asset and obtain SHPO concurrence prior to
978 determining the applicable procedures under the APA.
979

980 If the presence or absence of NRHP-eligible or potentially eligible archaeological sites
981 or Tribal cultural resources within the APE is unknown, the Center CRM will refer to the
982 Archaeological Management Plan and Assessment Matrix for Areas Not Previously
983 Surveyed to determine the approach to make a good-faith effort to identify such
984 resources.
985

986 If the CRM determines that none of the situations apply, then the Center CRM shall
987 document this determination for inclusion in the Center-Level Annual Report (Appendix
988 M – Center-Level Annual Report). The Project may proceed without further action
989 under the APA, notwithstanding unanticipated discoveries per Stipulation XV
990 (Unanticipated Discoveries). Any cumulative or adverse effects that may occur as a
991 result of concluding the process at this point will be mitigated through Programmatic
992 Mitigation per Stipulation X (Treatment Measures).
993

994 If the CRM determines that any of the situations apply, then the CRM will proceed to
995 the appropriate Stipulation:
996

997 d. Stipulation VI (Individual Project Review: Projects Outside Heritage
998 Zones);
999

1000 e. Stipulation VII (Individual Project Review: Exterior Modification or New
1001 Construction Inside a Heritage Zone); or
1002

1003 f. Stipulation VIII (Individual Project Review: All Other Projects Inside a
1004 Heritage Zone).
1005

1006 VI. INDIVIDUAL PROJECT REVIEW: PROJECTS OUTSIDE OF HERITAGE ZONES

1007
1008 For any non-excluded Project outside of Heritage Zones that contain Category 1 Assets and/or
1009 eligible or potentially eligible archaeological sites or Tribal cultural resources, the following
1010 stipulations shall apply.
1011

1012 A flow chart for Stipulation VI is included in Appendix E – Individual Project Review Flow Charts.
1013
1014

- 1015 A. The Center CRM will make a determination of effect.
1016
1017 In the event of a likely adverse effect, NASA will first consider whether the Project can be
1018 feasibly altered to avoid or minimize adverse effects.
1019
1020 B. The Center CRM will initiate consultation via a Notification Letter, per Stipulation IX.A
1021 (Notification Letter).
1022
1023 C. If objections are received in response to the Notification Letter, the Center CRM will
1024 follow the process outlined in Stipulation IX.B (Resolving Objections) to resolve the objection.
1025
1026 D. No Adverse Effects
1027
1028 If the Center CRM does not receive any objections to a determination of no adverse effect, the
1029 Project may proceed without further action under the APA, notwithstanding unanticipated
1030 discoveries per Stipulation XV (Unanticipated Discoveries).
1031

- 1032 E. Adverse Effects
1033
1034 If a Category 1 Asset will be adversely affected, then NASA will complete recordation of the
1035 Asset per Stipulation X.C (Recordation of Category 1 Assets).
1036
1037 If eligible archaeological historic properties will be adversely affected, then NASA will develop
1038 an Archaeology Mitigation Plan per Stipulation X.D (Archaeology Mitigation Plan).
1039

1040 **VII. INDIVIDUAL PROJECT REVIEW – EXTERIOR MODIFICATION AND NEW CONSTRUCTION**
1041 **INSIDE HERITAGE ZONES**
1042

1043 For any non-excluded Project that includes either Exterior Modification or New Construction, where
1044 the APE includes any portion of a Heritage Zone, the following stipulations shall apply.
1045

1046 A flow chart for Stipulation VII is included in Appendix E – Individual Project Review Flow Charts.
1047

- 1048 A. The Center CRM will make a determination of effect.
1049
1050 In the event of a likely adverse effect, NASA will first consider whether the Project can be
1051 feasibly altered to avoid or minimize adverse effects.
1052
1053 B. The Center CRM will initiate consultation via a Notification Letter, per Stipulation IX.A
1054 (Notification Letter).
1055
1056 C. If no objections are received, the Center CRM will proceed to Stipulation VII.E (No
1057 Adverse Effects) or Stipulation VII.F (Adverse Effects) as appropriate.
1058

1059 D. If objections are received in response to the Notification Letter, NASA shall proceed
1060 according to the following steps.
1061

1062 1. Continued Consultation
1063

1064 During Phase A (Concept Development) of the CoF Project Life Cycle, and prior to the
1065 60% design stage, the Center CRM will invite the SHPO and Center Consulting Parties
1066 to a consultation meeting that will be attended by the Center FPM and the Center
1067 CRM. If the Project proponent is a tenant, a representative of the tenant with decision-
1068 making authority will be present. The FPO, ACHP, and additional relevant Center
1069 personnel shall be notified of the consultation meeting and invited to attend.
1070

1071 The consultation meeting will include a detailed presentation of the Project purpose
1072 and need, Project details, and alternatives considered. After the consultation meeting,
1073 the SHPO, ACHP, and Center Consulting Parties shall have 15 days to provide the
1074 Center CRM with suggestions of ways to avoid or minimize adverse effects in writing.
1075 NASA shall evaluate the feasibility of suggestions received.
1076

1077 2. Project Revisions
1078

1079 If at any time, NASA elects to revise the Project to avoid diminishment of the CDF of
1080 the Heritage Zone and/or to avoid adverse effects to historic properties within it, then
1081 the Center CRM shall prepare a formal addendum (Addendum) to the Notification
1082 Letter prepared under Stipulation IX.A (Notification Letter) with a revised Project
1083 description and finding of effect.
1084

1085 a. If no objection is received within 15 days of the Addendum, the Center
1086 CRM shall proceed with the revised Project per Stipulation VII.E (No Adverse
1087 Effect).
1088

1089 b. If an objection is received, the Center CRM may elect to continue
1090 consultation, or they may accept a determination of adverse effects, and
1091 proceed per Stipulation VII.F (Adverse Effect).
1092

1093 If avoidance is not feasible, NASA may elect to incorporate minimization measures
1094 proposed during consultation. NASA will resolve adverse effects per Stipulation VII.F.1.
1095

1096 E. No Adverse Effects
1097

1098 If the Center CRM does not receive any objections to a determination of no adverse effect, or
1099 if a determination of no adverse effect results from consultation per Stipulation VII.C or VII. D,
1100 the project may proceed without further action under the APA, notwithstanding unanticipated
1101 discoveries per Stipulation XV (Unanticipated Discoveries).
1102

1103 F. Adverse Effects

1104
1105
1106
1107
1108
1109
1110
1111
1112
1113
1114
1115
1116
1117
1118
1119
1120
1121
1122
1123
1124
1125
1126
1127
1128
1129
1130
1131
1132
1133
1134
1135
1136
1137
1138
1139
1140
1141
1142
1143
1144
1145
1146

1. If NASA determines that it cannot avoid diminishment of the CDF of the Heritage Zone, or adverse effects to historic properties located within it, then NASA shall develop a Heritage Zone Mitigation Plan per Stipulation X.B (Heritage Zone Mitigation Plan). The plan will reflect the scale and extent of adverse effects reflective of any minimization measures that were incorporated based upon comments received during consultation.
2. In the event that the only adverse effects of the Project are to NRHP-eligible archaeological sites, then NASA shall develop an Archaeology Mitigation Plan per Stipulation X.D (Archaeology Mitigation Plan).

VIII. INDIVIDUAL PROJECT REVIEW – ALL OTHER PROJECTS INSIDE HERITAGE ZONES

For all other non-excluded Projects where the APE includes any portion of a Heritage Zone, including Demolition and Transfer to non-federal entities, the following stipulations shall apply.

A flow chart for Stipulation VIII is included in Appendix E – Individual Project Review Flow Charts.

A. The Center CRM will make a determination of effect.

In the event of a likely adverse effect, NASA will first consider whether the Project can be feasibly altered to avoid or minimize adverse effects.

B. The Center CRM will initiate consultation via a Notification Letter, per Stipulation IX.A (Notification Letter).

C. If objections are received in response to the Notification Letter, the Center CRM will follow the process outlined in Stipulation IX.B (Resolving Objections) to resolve the objection.

D. No Adverse Effects

If the Center CRM does not receive any objections to a determination of no adverse effect, the Project may proceed without further action under the APA, notwithstanding unanticipated discoveries per Stipulation XV (Unanticipated Discoveries).

E. Adverse Effects

If adverse effects to the built environment will result, then NASA will develop a Heritage Zone Mitigation Plan per Stipulation X.B (Heritage Zone Mitigation Plan).

If adverse effects are limited to archaeological historic properties, then NASA will develop an Archaeology Mitigation Plan per Stipulation X.D (Archaeology Mitigation Plan).

1147 **IX. INDIVIDUAL PROJECT REVIEW – CONSULTATION**

1148

1149 If consultation is required pursuant to Individual Project Review Stipulations VI, VII, or VIII, the Center
1150 CRM and Center Consulting Parties will proceed with the following.

1151

1152

A. Notification Letter

1153

1154 The Center CRM shall send a notification letter (Notification Letter) to the SHPO, copying the
1155 Center Consulting Parties, that, at a minimum, provides the following information:

1156

1157 1. A description of the Project, stating the relevant APA Project Type(s), with a
1158 timeline, if known;

1159

1160 2. A map of the APE;

1161

1162 3. If applicable, the boundaries of the Heritage Zone(s);

1163

1164 4. The Assets located within the APE and their corresponding Management
1165 Category;

1166

1167 5. If the Project involves ground disturbance outside of the Asset footprint, a list
1168 of the archeological sites within the APE (if surveyed) or the archaeological potential
1169 within the APE (if unsurveyed) based upon the Archaeology Management Plan;

1170

1171 6. NASA's determination of effect;

1172

1173 7. If applicable, the avoidance alternatives considered by NASA and the reasons
1174 for their rejection; and

1175

1176 8. NASA's intended path forward under the APA including the relevant mitigation
1177 measures, if applicable.

1178

1179 The SHPO and Center Consulting Parties shall have 30 days to review the Notification Letter
1180 and provide comments in writing to the Center CRM, including any recommendations for
1181 project revisions to avoid adverse effects, as appropriate.

1182

B. Resolving Objections

1184

1185 If objections are received, NASA will consider the comments and issue a response, indicating
1186 NASA's intent to revise the determination of effect, NASA's intent to revise the Project based
1187 on the comments, or NASA's intent to move forward with the Project without revisions.

1188

1189 Thereafter, the Center CRM shall proceed according to the relevant stipulation.

1190 Objections received pursuant to Stipulation VII.D will proceed according to the process
1191 specifically outlined in that stipulation.
1192

1193 **X. TREATMENT MEASURES**
1194

1195 **A. Programmatic Mitigation**
1196

1197 As programmatic mitigation for adverse effects to historic properties from Projects not
1198 otherwise mitigated, individually or cumulatively, under the APA stipulations, NASA will create
1199 a new public website where it will maintain an interactive digital map (Digital Map) for each
1200 Participating Center, reflecting their current condition, identifying extant Category 1 Assets,
1201 historic districts, and other cultural resources of interest, and linking to image, video, and
1202 textual resources that describe the historical use and significance of the highlighted cultural
1203 resources. The Digital Map will show current satellite imagery, with georeferenced
1204 documentary/historic aerials and maps that depict the Centers during several time periods,
1205 one of which will be during or immediately after the Center's initial build-out. The Digital Map
1206 will serve as an intuitive online portal to existing and archived data such as
1207 documentary/historic photography, Historic American Buildings Survey (HABS) or Historic
1208 American Engineering Record (HAER) recordation, architectural survey reports, primary
1209 resource material such as videos and oral history interviews, and other resources as
1210 appropriate.
1211

1212 NASA shall have two years from the execution of the APA to complete the initial build-out of
1213 the Digital Map. Once the initial build-out is completed, NASA shall regularly update and add
1214 to the Digital Map as documentation of Assets under the APA and other relevant historical
1215 information becomes available. NASA shall report on development of the Digital Map
1216 annually under Stipulation XVI (Annual Reporting), and shall provide the respective SHPOs
1217 and consulting parties to the APA the opportunity to review and comment on the Digital Map
1218 on an annual basis, including ways to enhance the product and maximize public exposure.
1219

1220 NASA shall maintain the Digital Map for the duration of the APA. Prior to the anticipated
1221 termination or expiration, NASA shall consult with the ACHP and NCSHPO to develop a plan
1222 for the maintenance of the Digital Map by NASA or another entity or entities, or if no such
1223 entity is identified, a plan for the permanent curation of the information contained in the
1224 Digital Map.
1225

1226 **B. Heritage Zone Mitigation Plan**
1227

1228 If NASA determines that it cannot avoid diminishment of the CDF of the Heritage Zone, or
1229 adverse effects to historic properties located within the Heritage Zone, then NASA shall
1230 develop a mitigation plan.
1231

1232 NASA shall develop a Heritage Zone Mitigation Plan with proposed measures addressing the
1233 Heritage Zone and/or historic properties within the Heritage Zone. If an NRHP-eligible

1234 archaeological site will be adversely affected, then the Heritage Zone Mitigation Plan must
1235 address archaeological as well as aboveground resources. The Center CRM shall submit the
1236 Heritage Zone Mitigation Plan electronically to the SHPO, copying the ACHP and Center
1237 Consulting Parties.
1238

1239 The SHPO, ACHP, and Center Consulting Parties shall have 30 days to review the Heritage
1240 Zone Mitigation Plan and to provide written comments. If the SHPO, ACHP, or any Center
1241 Consulting Party objects to the mitigation plan, then NASA shall consult with the party to
1242 resolve the objection for up to 30 days. If an agreement is reached, it shall be documented in
1243 writing from the Center CRM to the SHPO, ACHP, and Center Consulting Parties.
1244

1245 If no agreement is reached, then the FPO shall review and consider the input of the SHPO,
1246 ACHP, and Center Consulting Parties and render a final decision on the Heritage Zone
1247 Mitigation Plan. This decision will be documented in a formal letter from the FPO to the
1248 ACHP, copying the SHPO and Center Consulting Parties.
1249

1250 If, at any point during consultation on the Heritage Zone Mitigation Plan, NASA elects to
1251 revise the Project to avoid diminishment of the CDF of the Heritage Zone, and adverse effects
1252 to historic properties located within the Heritage Zone, then consultation shall be resolved per
1253 Stipulations VII.D.2 (Project Revisions).
1254

1255 C. Recordation of Category 1 Assets

1256

1257 If NASA determines that adverse effects to a Category 1 Asset cannot be avoided, NASA shall
1258 prepare digital photographic recordation conforming to the most recent NPS NRHP
1259 requirements for digital images. The number of views will be sufficient to capture the exterior
1260 and, if applicable and feasible, interior CDF of the Asset, and will include, at a minimum, the
1261 following.
1262

- 1263 1. Exterior Views
 - 1264 a. 10 views of the Asset within its larger context;
 - 1265 b. 8 views of the entire Asset such that all sides are documented; and
 - 1266 c. Details of CDFs.
 - 1267 2. Interior Views (if applicable and feasible)
 - 1268 a. Multiple views of each primary public space (e.g., lobbies);
 - 1269 b. Representative views of major circulation spaces (e.g., hallways);
- 1270
1271
1272
1273
1274
1275
1276

- 1277 c. Multiple views of functionally significant work spaces (e.g.,
1278 laboratories, clean rooms, test chambers), including equipment, instruments,
1279 and furniture; and
1280
1281 d. Representative views of administrative spaces (e.g., offices, meeting
1282 rooms).
1283

1284 NASA shall undertake recordation of the Asset prior to commencing work. Upon completion,
1285 the Center CRM shall submit an electronic copy of the final recordation package to the SHPO,
1286 and shall link the electronic version of the recordation package to the Digital Map.
1287

1288 If the Asset has been previously recorded to these or higher standards, such as HAER Level 1
1289 or Level 2 recordation, then NASA will not be required to undertake additional photo
1290 recordation under this stipulation. Rather, NASA shall make the existing recordation available
1291 via the Digital Map and shall have no further requirements under this stipulation.
1292

1293 **D. Archaeology Mitigation Plan**

1294
1295 If mitigation of an NRHP-listed, eligible, or potentially eligible archaeological site is necessary,
1296 then NASA, in consultation with the SHPO and Center Consulting Tribes, shall develop a
1297 written Archaeology Mitigation Plan that outlines measures to resolve adverse effects to the
1298 site, and shall submit it electronically to the SHPO and Center Consulting Tribes. The
1299 Mitigation Plan may include alternative mitigations, rather than data recovery measures, that
1300 contribute towards the public's understanding of the historical significance of NASA-owned or
1301 -controlled archaeological resources. The Archaeology Mitigation Plan shall include a scope
1302 of work with sufficient detail that it could be used as the basis for solicitation of bids.
1303

1304 SHPO and Center Consulting Tribes shall have 30 days to review the Archaeology Mitigation
1305 Plan and provide written comments to the Center CRM. The Center CRM shall contact the
1306 SHPO and Center Consulting Tribes to confirm their intent to comment within 30 days from
1307 receipt of the Mitigation Plan. NASA will consider requests from the SHPO and Center
1308 Consulting Tribes to extend the review period to 45 days. If no objection is received from the
1309 SHPO or any of the Center Consulting Tribes within the specified review period, then the
1310 Center CRM may finalize the Archaeology Mitigation Plan and submit an electronic copy to
1311 the SHPO and Center Consulting Tribes.
1312

1313 If the SHPO or any Center Consulting Tribe objects to the Archaeology Mitigation Plan, then
1314 the Center CRM shall either:
1315

- 1316 1. Convene a meeting between the SHPO and Center Consulting Tribes to
1317 discuss the disagreement and work towards a consensus resolution; or
- 1318 2. Forward its findings, along with the SHPO's comments and Center Consulting
1319 Tribes' comments, to the FPO for a decision. The FPO shall have 30 days to
1320

1321 render its binding decision, which shall be communicated in writing to the
1322 SHPO and Center Consulting Tribes, copying the Center CRM.
1323

1324 **XI. GENERAL PROVISIONS**
1325

1326 A. The definitions in 36 CFR Part 800 are applicable to the APA and are incorporated by
1327 reference herein. Definitions specific to the APA are listed in Appendix A – Definitions.
1328

1329 B. Anything “written” and “in writing” refers to hardcopy or electronic communication. All
1330 communications, submissions, and reporting shall be in writing and delivered electronically,
1331 unless a specific request for a hardcopy is made to the issuing party in writing or it is required
1332 by SHPO standards.
1333

1334 C. Unless otherwise indicated, “days” shall mean calendar days.
1335

1336 **XII. TRAINING**
1337

1338 NASA shall provide training to NASA personnel with responsibilities under the APA. Training materials
1339 will be provided to the APA Consulting Parties and Center Consulting Parties on request.
1340

1341 **XIII. QUALIFICATIONS FOR SURVEY AND EVALUATION**
1342

1343 NRHP evaluations carried out in the execution of the APA shall be performed by or under the direct
1344 supervision of a person who meets the appropriate *Secretary of the Interior’s Professional*
1345 *Qualifications Standards* (48 Federal Regulation [F.R.] 44738-9) in an applicable discipline.
1346

1347 **XIV. ARCHAEOLOGICAL MONITORING**
1348

1349 In cases where monitoring is requested by a Center Consulting Party, at least one archaeological
1350 monitor will be present. Monitoring can be conducted by the Center CRM. This person does not need
1351 to meet SOI standards for archaeology, however they must consult an SOI-qualified archaeologist
1352 prior to and during all monitoring activities. The SOI-qualified archaeologist does not need to be
1353 present on site.
1354

1355 If through consultation, a Center Consulting Tribe requests that a Tribal monitor(s) be present, NASA
1356 will consider this request, taking mission and timing requirements into consideration, and ensure
1357 additional Tribal monitors are present to the greatest extent feasible.
1358

1359 A memo detailing the results of the ground disturbance will be drafted and included with the Annual
1360 Report per Stipulation XVI (Annual Reporting). If cultural materials are found, NASA shall proceed per
1361 Stipulation XIV (Unanticipated Discoveries).
1362
1363

1364 **XV. UNANTICIPATED DISCOVERIES**

1365
1366 NASA shall make all reasonable efforts to avoid disturbing gravesites, including those containing
1367 Native American human remains and associate funerary artifacts. If previously unidentified
1368 archaeological historic properties or human remains are discovered during ground disturbing
1369 activities, NASA shall respond as directed in the Center ICRMP SOP and the ACHP Policy Statement
1370 on Burial Sites, Human Remains, and Funerary Objects (March 1, 2023).

1371
1372 **XVI. ANNUAL REPORTING**

1373
1374 Each year following the execution of the APA until it expires or is terminated, Center CRMs shall
1375 prepare an annual report (Annual Report (Center Level)) and distribute it to the SHPO, Center
1376 Consulting Parties, and the FPO. The Center Level Annual Report will include:

- 1377
1378 A. A list of all Projects excluded from review under the APA pursuant to the Programmatic
1379 Allowances (Appendix H – Programmatic Allowances), citing the applicable allowance;
1380
1381 B. A summary of Projects resolved through completion of standard mitigation measures;
1382
1383 C. A summary of Projects for which a Heritage Zone Mitigation Plan or Archaeology
1384 Mitigation Plan was completed;
1385
1386 D. Projects for which archaeological monitoring was conducted in lieu of survey; and
1387
1388 E. Unanticipated discoveries made and the outcome.
1389

1390 The FPO shall use the Center-Level Annual Reports to prepare an APA-Level Annual Report for
1391 submission to the APA Consulting Parties. This Report will include a general summary and assessment
1392 of APA implementation, with any recommended improvements or amendments. Within 60 days of the
1393 FPO’s submittal of the APA-Level Annual Report, any signatory may request that the FPO convene a
1394 meeting with the APA Consulting Parties to review the implementation of the APA, any problems
1395 encountered, any disputes and objections received, and suggestions for improvements to APA
1396 implementation.

1397
1398 **XVII. ADOPTABILITY**

1399
1400 **A. Center Adoption After APA Execution**

1401
1402 Prior to the expiration or termination of a Center-wide programmatic agreement, the Center
1403 CRM shall notify the FPO in writing, copying the SHPO and Center Consulting Parties, and
1404 shall take steps as appropriate to have the necessary management tools in place to enable its
1405 compliance with the APA as a Participating Center. The Center CRM shall be responsible for
1406 ensuring that the following actions are carried out.

1407
1408
1409
1410
1411
1412
1413
1414
1415
1416
1417
1418
1419
1420
1421
1422
1423
1424
1425
1426
1427
1428
1429
1430
1431
1432
1433
1434
1435
1436
1437
1438
1439
1440
1441
1442
1443
1444
1445
1446
1447
1448
1449

1. Heritage Zones

The Center CRM shall consult with the FPO, SHPO, and Center Consulting Parties to determine if one or more Heritage Zone is present at the Center, and if so, to define the boundaries of the Heritage Zone(s). The Heritage Zone(s) shall be defined, with SHPO concurrence, by the time the existing Center-wide programmatic agreement expires or is terminated.

2. Asset List

The Center CRM will use the Asset Categorization procedures in Appendix F – Asset Categorization to prepare an Asset List consistent with Stipulation III.A.2 (Asset Lists), and shall submit the Asset List to the SHPO, copying Center Consulting Parties, for review. The initial Asset List shall be defined, with SHPO concurrence, by the time the existing Center-wide programmatic agreement expires or is terminated.

3. Archaeology Management Plan

Within one year of its entry into the APA as a Participating Center, the Center CRM will complete the assessment of completed archaeological studies consistent with Stipulation III.B.1 (Assessment of Archaeological Studies). Within three years of its entry into the APA, the Center CRM will have in place an Archaeology Management Plan consistent with Stipulation III.B.2 (Development of Archaeology Management Plan).

Within 1 year, NASA will update the Digital Map with information for the Participating Center comparable to that developed for other Participating Centers under Stipulation X.A (Programmatic Mitigation).

The FPO shall be responsible for revising Appendix J – Participating Centers to reflect the addition of a Participating Center in coordination with ACHP and NCSHPO.

B. Federal Agencies

In order to ensure a consistent management approach at Participating Centers, other federal agencies who conduct work on NASA’s real property Assets (e.g. DOT, DOD, NPS, USFWS) and who are designated as the lead federal agency for Section 106, may utilize the terms of the APA to fulfill their Section 106 responsibilities. The other federal agency will coordinate with NASA to ensure that any Center-level annual reporting requirements are met. Additionally, the other federal agency will ensure that any notifications required by the APA will clearly state that it is utilizing the APA to fulfill its Section 106 responsibilities.

1450 **XVIII. ANTI-DEFICIENCY ACT**

1451
1452 NASA's future efforts to execute requirements arising from the stipulations of the APA are subject to
1453 the provisions of the Anti-Deficiency Act. If compliance with the Anti-Deficiency Act alters or impairs
1454 NASA's ability to implement the stipulations of the APA, NASA shall consult in accordance with the
1455 amendment and termination procedures found in Stipulation XXII (Amendments) and Stipulation XXIII
1456 (Termination) of this Agreement. No provision of the APA shall be interpreted to require obligation or
1457 payment of funds in violation of the Anti-Deficiency Act, Title 31 U.S.C. Part 1341.

1458
1459 **XIX. HANDLING OF CONTROLLED UNCLASSIFIED INFORMATION**

1460
1461 In the performance of this Agreement, the non-NASA Parties may have access to, be furnished with, or
1462 use U.S. Government data, the use and dissemination of which, the Government intends to control.
1463 With respect to data specifically marked with a restrictive notice, including but not limited to
1464 "Controlled Unclassified Information (CUI)," the non-NASA Parties agree to:

- 1465
1466 A. Use, disclose, or reproduce the data only as necessary under the APA;
1467
1468 B. Safeguard the data from unauthorized use and disclosure;
1469
1470 C. Allow access to the data only to its employees and related entities (i.e., contractors,
1471 subcontractors, grantees, or other entities having a legal relationship with NASA, the SHPO,
1472 or ACHP that is assigned, tasked, or contracted to perform activities under this Agreement);
1473
1474 D. Except as provided elsewhere in this stipulation, preclude disclosure of the data
1475 outside the parties' organizations;
1476
1477 E. Notify its employees who may require access to the data about the obligations under
1478 this clause and ensure that such employees comply with such obligations, and notify its related
1479 entities that may require access to the data about their obligations under this clause; and
1480
1481 F. Return or dispose of the data, as NASA may direct, when the data is no longer needed
1482 for performance under this Agreement.

1483
1484 In the event that data exchanged between NASA and the parties include a legend that the non-NASA
1485 parties deem to be ambiguous or unauthorized, the non-NASA parties may inform NASA of such
1486 condition. Notwithstanding such a legend, as long as such legend provides an indication that a
1487 restriction on use or disclosure was intended, the party receiving such data shall treat such data
1488 pursuant to the requirements of this clause unless otherwise directed, in writing, by NASA.

1489
1490 Notwithstanding any restrictions on use, disclosure, or reproduction of data provided in this clause,
1491 the parties will not be restricted in the use, disclosure, and reproduction of any data that:
1492

- 1493 G. Is publicly available at the time of disclosure or becomes publicly available without
1494 breach of this Agreement;
1495
1496 H. Is known to, in the possession of, or developed by the receiving party independent of
1497 carrying out the receiving party's responsibilities under this Agreement and independent of any
1498 disclosure of, or without reference to, proprietary data or otherwise protectable data
1499 hereunder;
1500
1501 I. Is received from a third party having the right to disclose such information without
1502 restriction; or
1503
1504 J. Is required to be produced by the receiving party pursuant to a court order or other
1505 legal requirement. If a non-NASA party believes that any of the events or conditions that
1506 remove restriction on the use, disclosure, and reproduction of the data apply the non-NASA
1507 party will promptly notify NASA of such belief prior to acting on such belief, and, in any event,
1508 will notify NASA prior to an unrestricted use, disclosure, or reproduction of such data.
1509

1510 To the extent authorized by federal law (including Section 304 of the NHPA; 36 CFR 800.11(c)(1); 54
1511 U.S.C. § 307103; Section 9 of the Archaeological Resources Protection Act; 16 U.S.C. § 470hh);
1512 and the Freedom of Information Act, 5 U.S.C. 552), NASA, the ACHP, and the NCSHPO shall
1513 withhold from public disclosure information about the nature or location of cultural resources,
1514 including archaeological resources, historic properties, and resources of religious and cultural
1515 significance to Indian tribes. NASA shall consult with the Secretary of the Interior pursuant to the
1516 ACHP's regulations (at 36 CFR § 800.11(c)(1)) as necessary to withhold information covered by
1517 Section 304 of the NHPA.
1518

1519 **XX. DURATION**

1520
1521 This Agreement shall remain in full force and effect for 15 years after the date of the last signatory's
1522 signature. During the 14th year of the APA's duration, the FPO shall convene a meeting of the
1523 signatories to consult on an extension of this Agreement. Should the signatories agree to extend the
1524 duration of the APA for an additional period, they shall do so per Stipulation XXII (Amendments).
1525

1526 **XXI. DISPUTE RESOLUTION**

1527
1528 Should any signatory to the APA object at any time to any actions proposed or the manner in which
1529 the terms of the APA are implemented, the FPO shall consult with such party to resolve the objection.
1530 If the FPO determines that such objection cannot be resolved, the FPO will:

- 1531
1532 A. Forward all documentation relevant to the dispute, including NASA's proposed
1533 resolution, to the ACHP. The ACHP shall provide the FPO with its advice on the resolution of
1534 the objection within 30 days of receiving adequate documentation. Prior to reaching a final
1535 decision on the dispute, the FPO shall prepare a written response that takes into account any

1536 timely advice or comments regarding the dispute from the ACHP, signatories and concurring
1537 parties, and provide them with a copy of this written response. NASA will then proceed
1538 according to its final decision.
1539

1540 B. If the ACHP does not provide its advice regarding the dispute within the 30-day time
1541 period, the FPO may make a final decision on the dispute and proceed accordingly. Prior to
1542 reaching such a final decision, the FPO shall prepare a written response that takes into
1543 account any timely comments regarding the dispute from the signatories and concurring
1544 parties to the APA, and provide them and the ACHP with a copy of such written response.
1545

1546 C. NASA's responsibility to carry out all other actions subject to the terms of the APA that
1547 are not the subject of the dispute remain unchanged.
1548

1549 **XXII. AMENDMENTS**

1550
1551 The APA may be amended when such an amendment is agreed to in writing by all signatories. The
1552 amendment will be effective on the date a copy signed by all of the signatories is filed with the ACHP.
1553

1554 Revisions to APA appendices will not require an amendment to the APA. However, Appendices A
1555 through J must be revised by consent of the signatories. If the signatories unanimously agree to revise
1556 any of Appendices A through J, the revised appendix will go into effect when NASA files the revision
1557 with the ACHP.
1558

1559 Appendices K and M may be revised at the Center level, with notification to the FPO. If the Center
1560 CRM and the SHPO agree to revise any of Appendices K through M, the revised appendix will go into
1561 effect when this agreement is documented in writing.
1562

1563 **XXIII. TERMINATION**

1564
1565 If any signatory to the APA determines that the terms will not or cannot be carried out, that party shall
1566 immediately consult with the other signatories to attempt to develop an amendment per Stipulation
1567 XXII (Amendments). If within 90 calendar days (or another time period agreed to by all signatories) an
1568 amendment cannot be reached, any signatory may terminate the APA upon written notification to the
1569 other signatories. If the APA is terminated, NASA shall comply with the provisions of 36 CFR Part 800,
1570 Subpart B, for all Projects that have not already begun and their effects resolved.
1571

1572 Execution of the APA by NASA, the ACHP, and the NCSHPO, and implementation of its terms
1573 evidence that NASA has taken into account the effects of the undertakings to which the APA applies
1574 on historic properties and afforded the ACHP an opportunity to comment.
1575

1576
1577 **APPENDIX A Definitions**

1578 **APPENDIX B APA Consulting Parties**

1579	APPENDIX C	Indian Tribes Invited to Consult on the APA
1580	APPENDIX D	NASA Centers
1581	APPENDIX E	Individual Project Review Flow Charts
1582	APPENDIX F	Asset Categorization
1583	APPENDIX G	NASA FCCS Class Codes
1584	APPENDIX H	Programmatic Allowances
1585	APPENDIX I	Annual Reporting (APA-Level)
1586	APPENDIX J	Participating Centers
1587	APPENDIX K	Heritage Zones
1588	APPENDIX L	Center Asset List
1589	APPENDIX M	Annual Reporting (Center-Level)
1590		
1591		

DRAFT

1592 **SIGNATORIES:**

1593

1594

1595

1596

1597 NASA

1598 Date

1599 [insert agency official name and title]

1600

1601

1602

1603

1604 ACHP

1605 Date

1606 [insert name and title]

1607

1608

1609

1610

1611 NCSHPO

1612 Date

1613 [insert name and title]

1614

1615

DRAFT

APPENDIX A – Definitions

1616
 1617
 1618
 1619
 1620
 1621
 1622
 1623
 1624
 1625
 1626
 1627
 1628
 1629
 1630
 1631
 1632
 1633
 1634
 1635
 1636
 1637
 1638
 1639
 1640
 1641
 1642
 1643
 1644
 1645
 1646
 1647
 1648
 1649
 1650
 1651

- "APA Consulting Parties" are the consulting parties to the APA and include the ACHP, NCSHPO, the NTHP, and the federally recognized Tribes that elected to participate.
- "Assets" are buildings and structures that are NASA-owned real property located within the United States, as recorded in RPMS in Facility Classes 1 through 8, and excluding Facility Class 9 (land) and Facility Class 10 (leasehold improvements). Assets do not include archaeological resources. See *Appendix G – NASA FCCS Class Codes*.
- "Centers" shall be understood to mean NASA's primary Centers, as well as component facilities and technical and service support centers in the U.S., thus constituting all NASA-owned real property in the U.S. See *Appendix D – NASA Centers*.
- "Center Consulting Parties" are consulting parties with a demonstrated interest in historic properties at a Participating Center, with which NASA shall consult under the applicable terms of APA. Center Consulting Parties shall include the respective SHPO(s) for the state in which the Center is located, Tribe(s), representatives of local governments, and other parties consistent with 36 CFR § 800.2.
- "Center Consulting Tribes" are the Tribes with a demonstrated interest in historic and cultural resources at a Participating Center, especially as it comes to ground disturbance.
- "Center-wide programmatic agreement" is a Section 106 agreement document that governs all undertakings at a Center. Programmatic agreements that apply to a subset of Assets shall not constitute a Center-wide programmatic agreement. See *Appendix J – Participating Centers*.
- "Character-defining Features (CDF)" are those aspects—materially and visually—that convey the significance of a resource, including both workmanship and materials.
- "Construction of Facilities (CoF) Project Life Cycle" is a concept used by NASA CoF to describe all phases of project execution, including the project formulation phases (including planning and development), final design, implementation (including construction, commissioning, and activation), maintenance and operation, decommissioning, and disposal/demolition. Additional information on this concept is found in NPR 8820.2H *Facility Project Requirements*.
- "Envelope" refers to all Asset components that separate the interior from the exterior, including exterior walls, foundations, roof, windows, and doors.
- "Facility Classification Coding System (FCCS)" is a hierarchical scheme, represented by numerical codes, of real property types and functions that serves as the framework for identifying, categorizing, and analyzing NASA's inventory of land and facilities. See *Appendix G – NASA FCCS Class Codes*.
- "Footprint" is the ground surface occupied by an Asset.

- 1652 • “Heritage Zone” is a management zone in the APA applied to areas within Participating Centers
1653 that possess a unique and distinguishable historical design aesthetic that merits special
1654 consideration. See *Appendix K – Heritage Zones*.
- 1655 • “Historical Integrity” is the ability of an Asset to convey the historical associations or attributes for
1656 which it is significant.
- 1657 • “HTSF” means highly technical or scientific facility as described in 1991 ACHP publication
1658 *Balancing Historic Preservation Needs with the Operations of Highly Technical or Scientific*
1659 *Facilities*.
- 1660 • “In kind” means closely matching the design, color, surface texture, reflectivity, finish, details, and
1661 other qualities of the material or element to be replaced.
- 1662 • “Limit of Disturbance (LOD)” is the area, both horizontally and vertically, within which Project
1663 activities may physically disturb earth.
- 1664 • “Management Categories” are a management tool used in the APA that categorizes NASA assets
1665 into four different buckets based on their historical significance and physical integrity.
- 1666 • “NASA” shall be understood to mean the agency currently known as NASA as well as its
1667 predecessor agency, the National Advisory Committee for Aeronautics (NACA).
- 1668 • “NASA Environmental Tracking System (NETS)” is a database maintained by Center CRMs and is
1669 the primary Asset database for NASA cultural resources.
- 1670 • “Participating Centers” shall mean NASA Centers to whom the APA applies—namely those that do
1671 not have an active Center-wide programmatic agreement. See *Appendix J – Participating Centers*.
- 1672 • “Project” shall mean “undertaking” as defined in 36 CFR Part 800.
- 1673 • “Real Property Management System (RPMS)” is NASA’s comprehensive inventory of NASA assets
1674 maintained by the Office of Strategic Infrastructure’s (OSI) Facilities and Real Estate Division
1675 (FRED).
- 1676
- 1677

1678
1679
1680
1681
1682
1683
1684
1685

APPENDIX B – APA Consulting Parties

National Association of Tribal Historic Preservation Officers (NATHPO)

National Trust for Historic Preservation (NTHP)

DRAFT

1686
1687
1688**APPENDIX C – Indian Tribes Invited to Consult on the APA**

Absentee-Shawnee Tribe	Muscogee (Creek) Nation of Oklahoma
Bad River Band of Lake Superior Tribe of Chippewa	Nansemond Indian Tribal Association
Bay Mills Indian Community of Michigan	Navajo Nation
Catawba Indian Nation	Nottawaseppi Huron Band of Potawatomi
Cayuga Nation of Indians	Ohkay Owingeh (San Juan) Pueblo
Chemehuevi Indian Tribe	Oneida Nation of Wisconsin
Chickahominy Indian Nation	Onondaga Nation
Chickahominy Indians Eastern Division	Ottawa Tribe of Oklahoma
Chippewa-Cree Business Committee	Pamunkey Indian Nation
Choctaw Nation of Oklahoma	Poarch Band of Creek Indians
Citizen Potawatomi Nation	Pokagon Band of Potawatomi Indians
Colorado River Indian Tribes	Prairie Band of Potawatomi
Death Valley Timbi-Sha Shoshone Band of California	Rappahannock Nation
Delaware Nation	Red Cliff Band of Lake Superior Chippewa
Delaware Tribe of Indians	Red Lake Band of Chippewa
Eastern Shawnee Tribe of Oklahoma	Sac & Fox Nation of Missouri in Kansas and Nebraska
Fond du Lac Band of Lake Superior Chippewa	Sac & Fox Nation, Oklahoma
Forest County Potawatomi Community of Wisconsin	Sac & Fox Tribe of the Mississippi in Iowa
Grand Portage Band of Chippewa	Saginaw Chippewa Indian Tribe of Michigan
Grand Traverse Band of Ottawa & Chippewa Indians of Michigan	Sandia Pueblo
Hannahville Indian Community of Michigan	Sault Ste. Marie Tribe of Chippewa
Isleta Pueblo	Seminole Nation of Oklahoma
Jena Band of Choctaw Indians	Seminole Tribe of Florida
Keweenaw Bay Indian Community	Seneca Nation of Indians
Kickapoo Traditional Tribe of Texas	Seneca-Cayuga Tribe of Oklahoma
Kickapoo Tribe in Kansas	Shawnee Tribe
Kickapoo Tribe of Oklahoma	Sokaogon Chippewa Band of Lake Superior Chippewa
Lac Courte Oreilles Band of Lake Superior Chippewa Indians	St. Croix Chippewa Indians of Wisconsin
Lac du Flambeau Band of Lake Superior Chippewa Indians	St. Regis Mohawk Tribe

Lac Vieux Desert Band of Lake Superior Chippewa Indians	The Hopi Tribe
Laguna Pueblo	Tonawanda Band of Seneca Nation
Little River Band of Ottawa	Tule River Indian Tribe
Little Traverse Bay Band of Odawa	Tunica-Biloxi Tribe of Louisiana
Match-e-be-nash-she-wish Band of Pottawatomi	Turtle Mountain Band of Chippewa
Miami Tribe of Oklahoma	Tuscarora Nation
Miccosukee Tribe of Indians of Florida	United Keetoowah Band of Cherokee Indians in Oklahoma
Mille Lacs Band of Ojibwe	Upper Mattaponi Indian Nation
Minnesota Chippewa Tribe (Executive Committee)	White Earth Reservation Business Committee
Mississippi Band of Choctaw Indians	Wyandotte Nation
Monacan Indian Nation	Ysleta Del Sur Pueblo

1689

DRAFT

1690
1691
1692

APPENDIX D – NASA Centers and Sites

Acronym	Name	Location
ARC	Ames Research Center	California
AFRC	Armstrong Flight Research Center	California
ATF	Armstrong Test Facility (component facility of GRC)	Ohio
	Columbia Scientific Balloon Research Facility (component facility of GSFC)	Texas
	Ft. Davis Mobile Laser Site (component facility of GSFC)	Texas
	Ft. Sumner (component facility of GSFC)	New Mexico
GRC	Glenn Research Center	Ohio
	Goddard Institute for Space Studies (component facility of GSFC)	New York
GSFC	Goddard Space Flight Center	Maryland
GDSCC	Goldstone Deep Space Communication Complex (component facility of JPL)	California
	Hawaii Maui Mobile Laser Site (component facility of GSFC)	Hawaii
	Hawaii Spaceflight Tracking/Data Network Stations (component facility of GSFC)	Hawaii
	Infrared Telescope Facility Mauna Kea (component facility of GSFC)	Hawaii
JPL	Jet Propulsion Laboratory	California
JSC	Johnson Space Center	Texas
KSC	Kennedy Space Center	Florida
LaRC	Langley Research Center	Virginia
MSFC	Marshall Space Flight Center	Alabama
MAF	Michoud Assembly Facility (component facility of MSFC)	Louisiana
	Monument Peak Mobile Laser Site (component facility of GSFC)	California
	NASA LCT at Winer Observatory (component facility of GSFC)	Arizona
	NPS Coquina Beach (component facility of GSFC)	North Carolina
	Poker Flats Research Range (component facility of GSFC)	Alaska
	Ponce de Leon Spaceflight Tracking/Data Network Site (component facility of GSFC)	Florida
	RFD at Chincoteague National Wildlife Refuge (component facility of GSFC)	Virginia
SSFL	Santa Susana Field Laboratory (component facility of MSFC)	California
	Software Independent Verification and Validation Facility (component facility of GSFC)	West Virginia

Acronym	Name	Location
SSC	Stennis Space Center	Mississippi
	Table Mountain Observatory (component facility of JPL)	California
WFF	Wallops Flight Facility (component facility of GSFC)	Virginia
WSTF	White Sands Test Facility (component facility of JSC)	New Mexico
	Winslow Arizona Downrange Station (component facility of GSFC)	Arizona
WSC	White Sands Complex (component facility of WFF, located within WSTF)	New Mexico

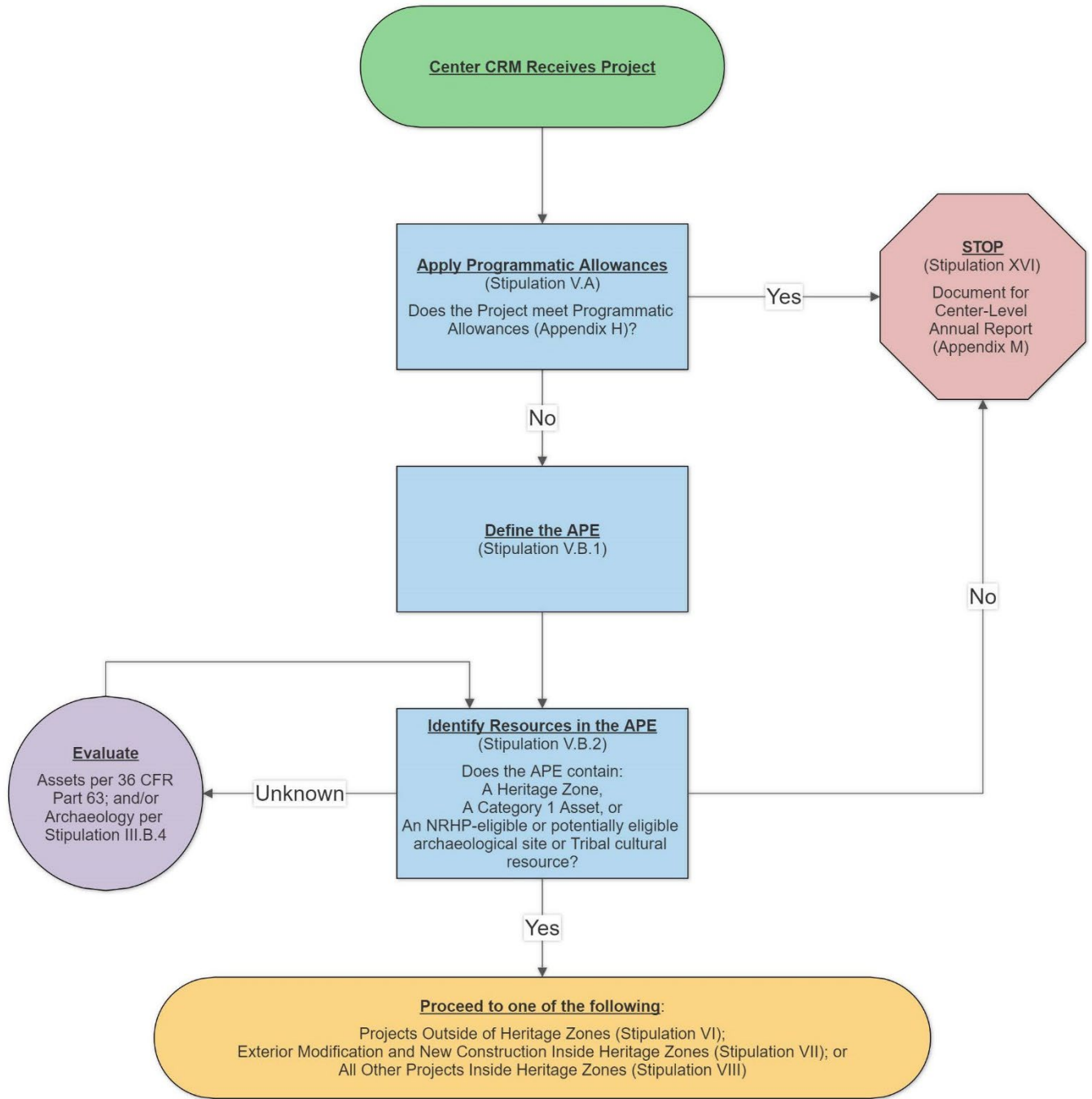
1693

DRAFT

1694
1695
1696
1697
1698

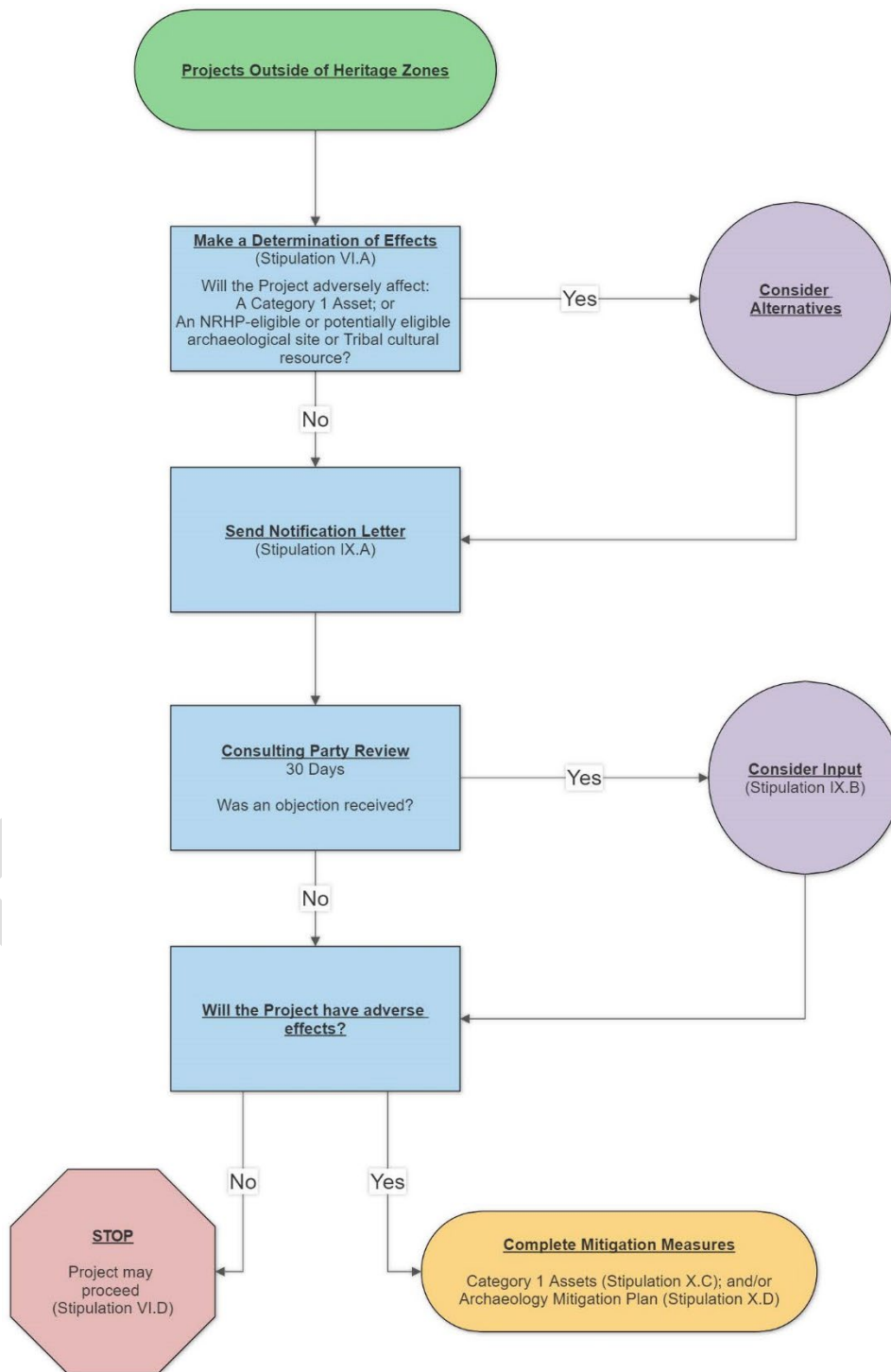
APPENDIX E – Individual Project Review Flow Charts

Stipulation V. Individual Project Review: Initial Review



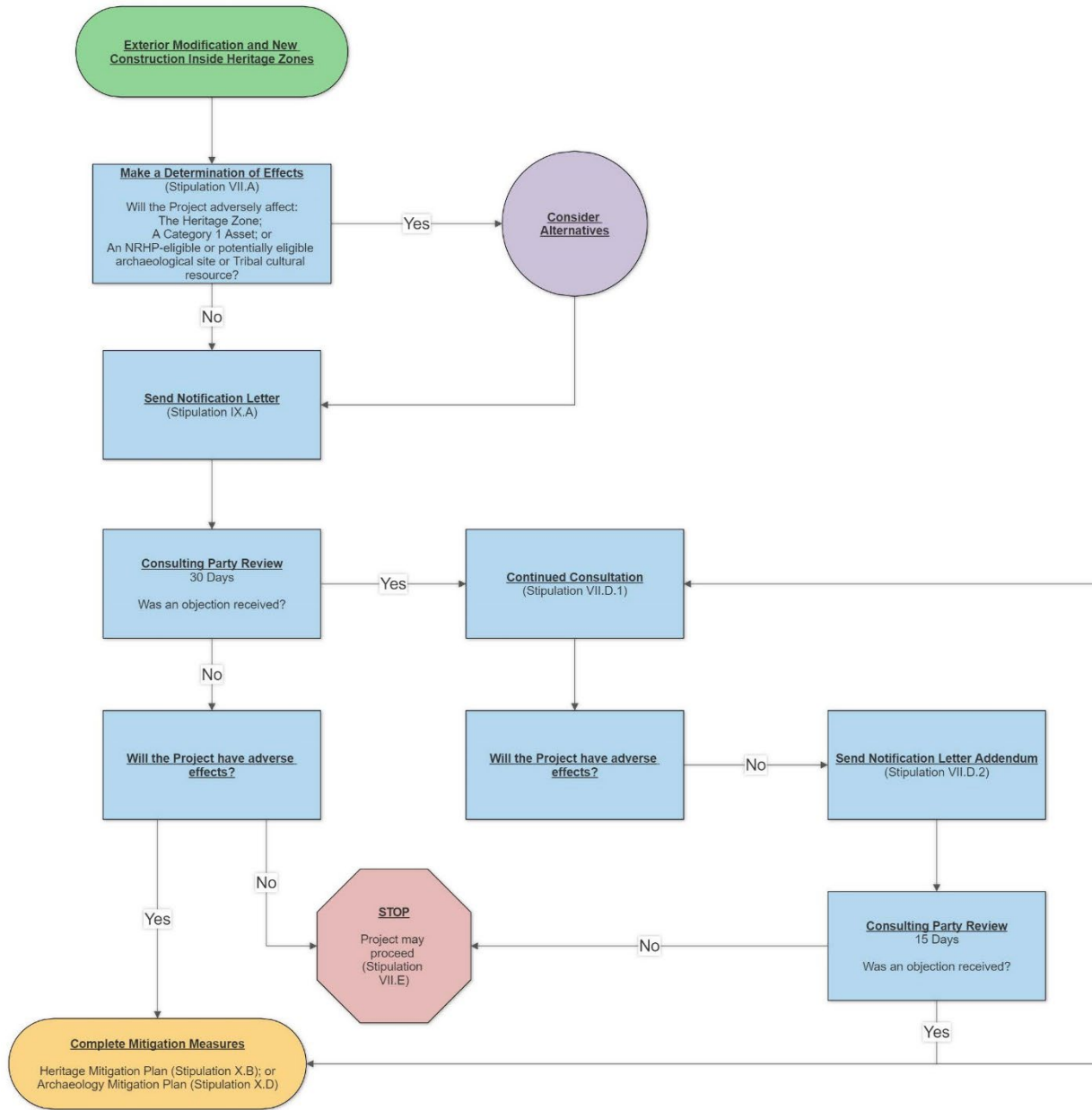
1699

1700 Stipulation VI. Individual Project Review: Projects Outside of Heritage Zones
1701



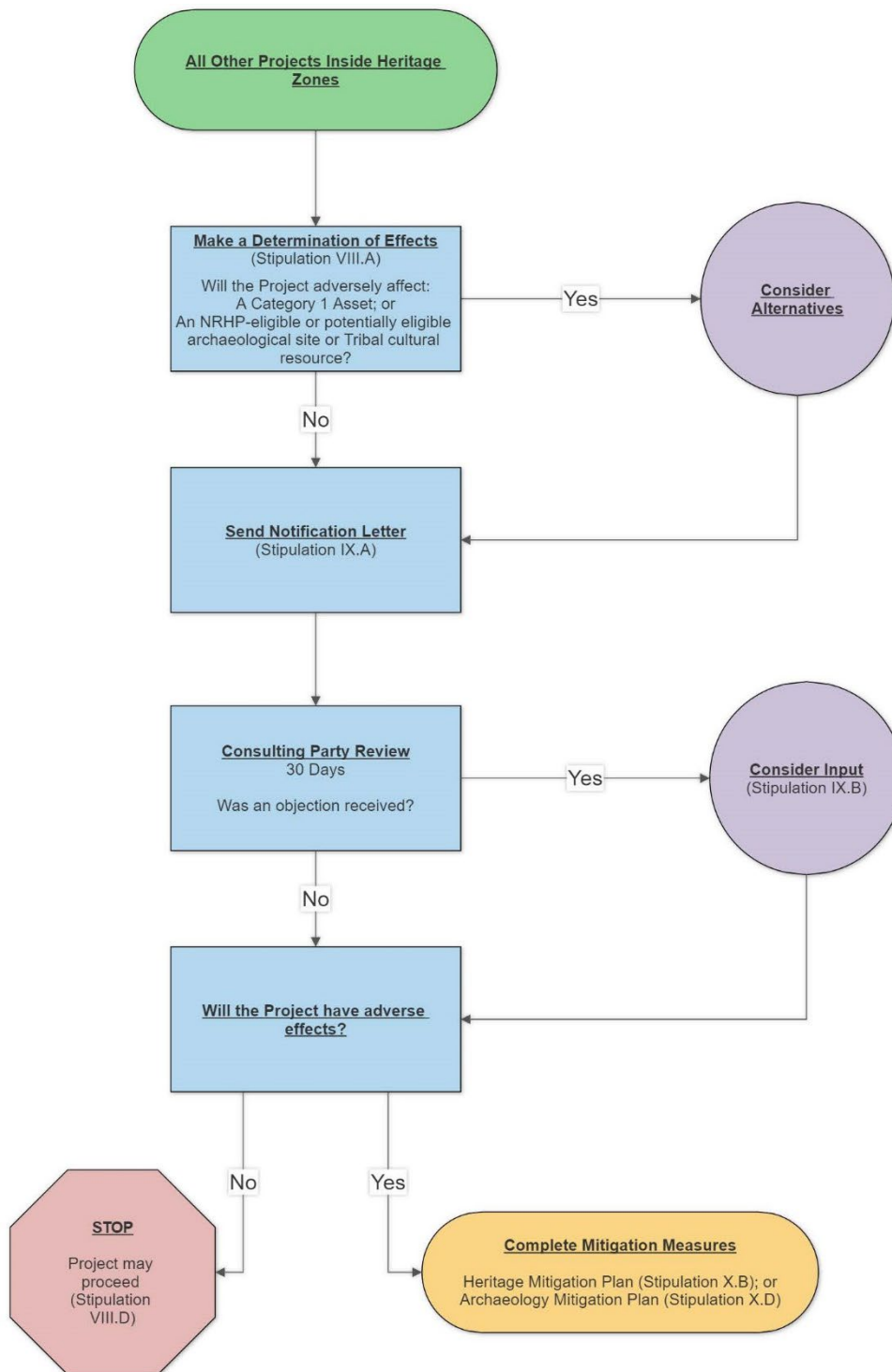
1702

1703 Stipulation VII. Individual Project Review: Exterior Modifications and New Construction Inside Heritage
 1704 Zones
 1705



1706
 1707
 1708

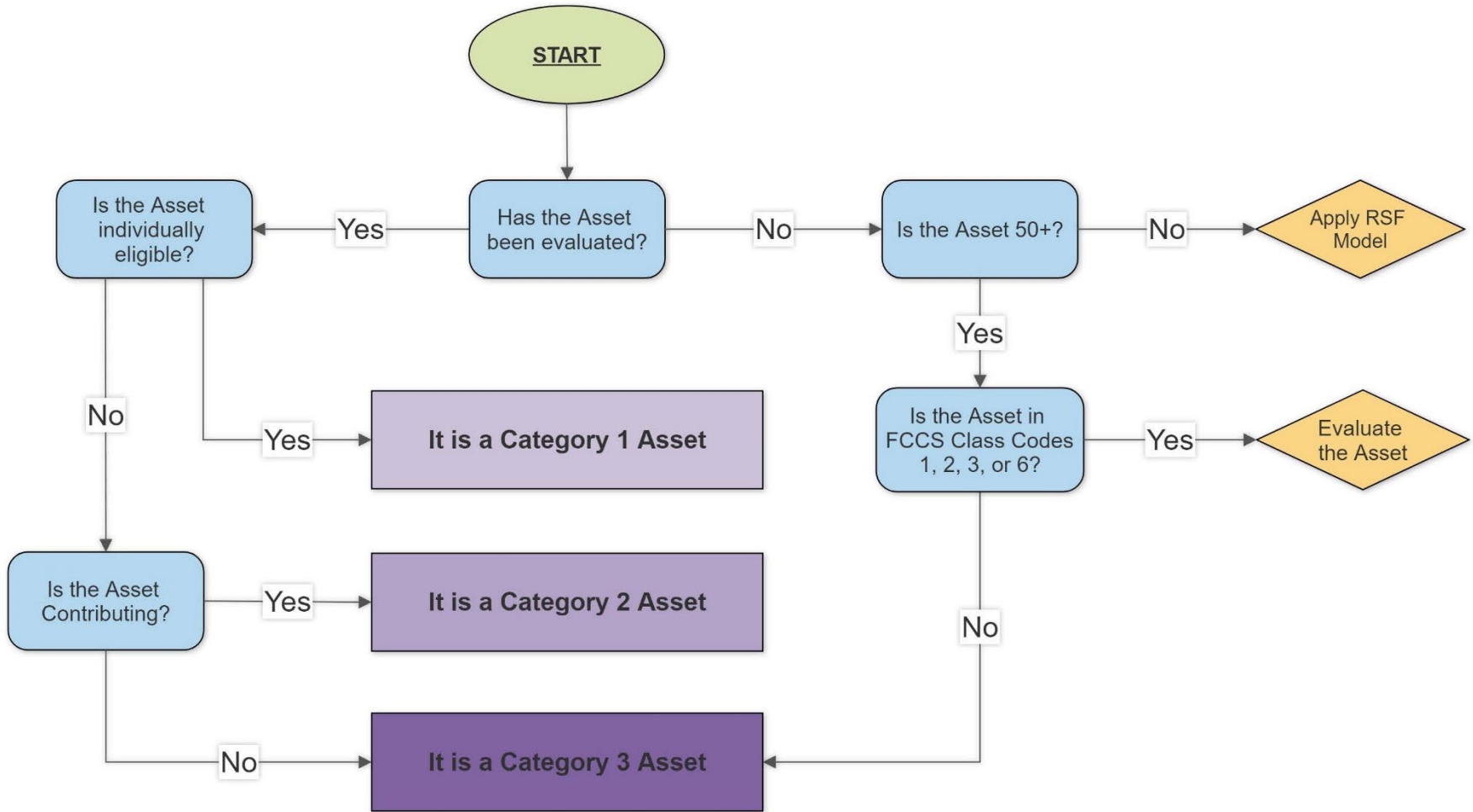
1709 Stipulation VIII. Individual Project Review: All Other Projects Inside Heritage Zones
 1710



1711

APPENDIX F – Asset Categorization

1712
1713



1714
1715

APPENDIX G – NASA FCCS Class Codes

1716
1717
1718
1719
1720
1721
1722
1723
1724
1725

NASA’s Facility Classification Coding System (FCCS) is used by the Facilities and Real Estate Division (FRED) to categorize real property assets in the Real Property Management System (RPMS). Based on numerical codes, the FCCS serves as the framework for identifying, categorizing, and analyzing the agency’s inventory of facilities around the world, and consists of Facility Class (level 1), Category Group (level 2), Basic Category (level 3), and NASA Code. Ten Facility Classes are subdivided into 42 Category Groups, 79 Basic Categories, and 321 NASA Codes that together provide a great deal of specificity on asset use.

Facility Class	Description
1	Operational, including Tracking and Data Acquisition and Training
2	Maintenance and Production
3	Research, Development, and Test
4	Supply
5	Hospital & Medical
6	Administrative
7	Housing and Community
8	Utility and Ground Improvements
9	Land
10	Leasehold Improvements

1726

APPENDIX H – Programmatic Allowances

NASA may undertake these activities without Project-specific consultation. If there are any adverse effects, they will be minimal, and will be resolved through Stipulation X.A (Programmatic Mitigation) prepared pursuant to this APA.

Programmatic Allowances Outside Heritage Zones

- For all Asset categories:
 - Interior and exterior repair/modification when any one of the following conditions applies:
 - All work is within Asset footprint; or
 - Area has been surveyed with no eligible archaeological resources; or
 - No archaeological survey is required per Archaeological Management Plan prepared under Stipulation III.B.2 (Development of Archaeology Management Plan).
 - Mothballing
 - Transfer to a federal agency
 - Outgrants where use-agreement does not allow for exterior modification (i.e., use of interior spaces)
 - Any other ground disturbance (not previously mentioned) when any one of the following conditions applies:
 - All work is within the existing footprint; or
 - Area has been surveyed with no eligible archaeological resources; or
 - No archaeological survey is required per Archaeological Management Plan prepared under Stipulation III.B.2 (Development of Archaeology Management Plan).
- For Category 2 Assets (in addition to the above):
 - Demolition and new construction, when any one of the following conditions applies:
 - All work is within the existing footprint; or
 - Area has been surveyed with no eligible archaeological resources; or
 - No archaeological survey is required per Archaeological Management Plan prepared under Stipulation III.B.2 (Development of Archaeology Management Plan).
- For Category 3 Assets (in addition to the above):
 - Demolition and new construction, when any one of the following conditions applies:
 - All work is within the existing footprint; or
 - Area has been surveyed with no eligible archaeological resources; or

- 1768
 - 1769
 - 1770
 - 1771
 - 1772
 - 1773
 - 1774
 - 1775
 - 1776
 - 1777
 - 1778
 - 1779
 - 1780
 - 1781
 - 1782
 - 1783
 - 1784
 - 1785
 - 1786
 - 1787
 - 1788
 - 1789
 - 1790
 - 1791
 - 1792
 - 1793
 - 1794
 - 1795
 - 1796
 - 1797
 - 1798
 - 1799
 - 1800
 - 1801
 - 1802
- No archaeological survey is required per Archaeological Management Plan prepared under Stipulation III.B.2 (Development of Archaeology Management Plan).

Programmatic Allowances Inside Heritage Zones

- For all Asset categories:
 - Routine repair and maintenance when any one of the following conditions applies:
 - All work is within existing footprint; or
 - Area has been surveyed with no eligible archaeological resources; and/or
 - No archaeological survey is required per Archaeological Management Plan prepared under Stipulation III.B.2 (Development of Archaeology Management Plan).
 - Interior modifications
 - Exterior modifications within existing footprint if in-kind or conforming to SHPO-approved design guidelines
 - Mothballing
 - Transfer to federal agency
 - Outgrants where use-agreement does not allow for exterior modification (i.e., use of interior spaces)
 - Any other ground disturbance (not previously mentioned), where there is no above ground component, and when any one of the following conditions applies:
 - All work is within Asset footprint; or
 - Area has been surveyed with no eligible archaeological resources; or
 - No archaeological survey is required per Archaeological Management Plan prepared under Stipulation III.B.2 (Development of Archaeology Management Plan).
- For Category 3 Assets (in addition to the above):
 - Demolition, when any one of the following conditions applies:
 - All work is within Asset footprint; or
 - Area has been surveyed with no eligible archaeological resources; or
 - No archaeological survey is required per Archaeological Management Plan prepared under Stipulation III.B.2 (Development of Archaeology Management Plan).

1803
1804
1805
1806 [Reserved]

APPENDIX I – Annual Reporting (APA-Level)



1807
1808
1809
1810 [Reserved]

APPENDIX J – Annual Reporting (Center-Level)



1811
1812
1813
1814
1815
1816
1817
1818
1819
1820
1821
1822
1823
1824
1825
1826

APPENDIX K – Participating Centers

At the execution of this APA, the following are Participating Centers:

- Armstrong Flight Research Center (CA)
- Ames Research Center (CA)
- Glenn Research Center (OH)
- Goddard Space Flight Center (MD)
- Jet Propulsion Lab (CA)
- Johnson Space Center* (TX)
- Michoud Assembly Facility (MAF)
- Stennis Space Center (MS)
- White Sands Test Facility (NM)

Participating Centers and their component facilities

Acronym	Name	Location
ARC	Ames Research Center	California
AFRC	Armstrong Flight Research Center	California
	Columbia Scientific Balloon Research Facility (component facility of GSFC)	Texas
	Ft. Davis Mobile Laser Site (component facility of GSFC)	Texas
	Ft. Sumner (component facility of GSFC)	New Mexico
GRC	Glenn Research Center	Ohio
	Goddard Institute for Space Studies (component facility of GSFC)	New York
GSFC	Goddard Space Flight Center	Maryland
GDSCC	Goldstone Deep Space Communication Complex (component facility of JPL)	California
	Hawaii Maui Mobile Laser Site (component facility of GSFC)	Hawaii
	Hawaii Spaceflight Tracking/Data Network Stations (component facility of GSFC)	Hawaii
	Infrared Telescope Facility Mauna Kea (component facility of GSFC)	Hawaii
JPL	Jet Propulsion Laboratory	California
JSC*	Johnson Space Center	Texas
MAF	Michoud Assembly Facility (component facility of MSFC)	Louisiana
	Monument Peak Mobile Laser Site (component facility of GSFC)	California
	NASA LCT at Winer Observatory (component facility of GSFC)	Arizona

Acronym	Name	Location
	NPS Coquina Beach (component facility of GSFC)	North Carolina
	Poker Flats Research Range (component facility of GSFC)	Alaska
	Ponce de Leon Spaceflight Tracking/Data Network Site (component facility of GSFC)	Florida
	RFD at Chincoteague National Wildlife Refuge (component facility of GSFC)	Virginia
	Software Independent Verification and Validation Facility (component facility of GSFC)	West Virginia
SSC	Stennis Space Center	Mississippi
	Table Mountain Observatory (component facility of JPL)	California
WSTF	White Sands Test Facility (component facility of JSC)	New Mexico
	Winslow Arizona Downrange Station (component facility of GSFC)	Arizona

1827
1828
1829
1830

At the execution of this APA, the following Programmatic Agreements are active:

Name	Execution	Scope	Expiration
NHL PA	1989	Specified NHLs	N/A
KSC PA	2009	Existing and future historic, ground-based facilities and structures listed in or eligible for listing in the NRHP; and Archaeological sites	
LaRC PA	2010; extended 2019	Facilities, infrastructure, and sites at LaRC; and Archaeological sites	
MSFC PA	2010	NASA buildings and structures, listed in or eligible for listing in the NRHP	
JSC PA	2011	*Specific assets determined NRHP-eligible for association with the Space Shuttle Program	
PBS	2012	Facilities, infrastructure, and sites; and Archaeological sites	
WFF	2014	NRHP-eligible resources; and Archaeological sites	

1831

1832
1833
1834
1835 [Reserved]

APPENDIX L – Heritage Zones



1836
1837
1838
1839 [Reserved]

APPENDIX M – Center Asset List

DRAFT