

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
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120 THE ADVISORY COUNCIL ON HISTORIC PRESERVATION,
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122 NATIONAL CONFERENCE OF STATE HISTORIC PRESERVATION OFFICERS,
123 REGARDING
124 THE MANAGEMENT OF NASA FACILITIES
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127 PREAMBLE
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129 National Aeronautics and Space Administration (NASA) Centers are active research institutions that
130 have developed around Highly Technical or Scientific Facilities (HTSF) and as such the design,
131 construction, and physical appearance of NASA Centers are determined largely by functional needs.
132 The challenges facing agencies like NASA were acknowledged in the 1991 Advisory Council on
133 Historic Preservation (ACHP) publication *Balancing Historic Preservation Needs with the Operations of*
134 *Highly Technical or Scientific Facilities*, prepared in response to a Congressional request seeking
135 counsel on “how a balance could be struck between the preservation of physical reminders of the
136 scientific legacy of the United States and the ongoing operation and upgrading of scientific and
137 technical research facilities.” The ACHP publication aimed to demonstrate how historic HTSF could be
138 managed consistent with the NHPA, in particular Section 106, if the respective parties—preservation
139 regulators and agency resource managers—understood and accounted for one another’s goals. A
140 major theme in this publication was the acknowledgement that modification is expected and necessary
141 to maintain active use of HTSF.
142

143 As an agency dedicated to the fields of aeronautics research, human exploration and operations,
144 science, and space technology, NASA must utilize its built assets in a manner that is often at odds with
145 traditional historic preservation approaches—NASA routinely modifies, upgrades, reconfigures,
146 cannibalizes, and replaces its resources, and traditional approaches to preservation are often not
147 feasible. Alteration inconsistent with the Secretary of the Interior’s (SOI’s) Standards for the Treatment
148 of Historic Properties is identified as a potential adverse effect under Section 106, but the SOI
149 standards were written with traditional historic buildings in mind. In the case of HTSF, modification
150 that enables continued use should be viewed as a character-defining feature (CDF) rather than an
151 adverse effect, as it is the active use of the asset that ensures its preservation.
152

153 Compounding the challenges of managing HTSF is the fact that NASA assets are more likely to meet
154 NRHP Criteria Consideration G (CCG) because of the agency’s extraordinary mission. According to
155 the NRHP criteria, properties less than 50 years of age are not normally eligible for listing unless they
156 are exceptionally important. As a result, it has become common practice among federal agencies to
157 focus Section 110 surveys on properties 50 years of age or older. Acknowledging the importance of
158 its unique assets, NASA completed an agency-wide evaluation of 335 Space Shuttle Program-related
159 assets in anticipation of the sunseting of the program. But this still represented a relatively small
160 percentage of their total portfolio of assets. Today, approximately 56% (or 3,000) of its U.S. real

161 property assets are less than 50 years of age. Traditional identification of all assets under CCG is not
162 feasible for NASA.

163
164 NASA's built infrastructure is also aging. The nature of NASA's activities means that built assets age
165 into obsolescence in a relatively short period of time without continual investment. Once an asset
166 reaches 40 years of age—as roughly half of NASA's assets have—NASA assumes that it has a
167 declining capacity to perform the function for which it was designed. Mission-essential assets are
168 prioritized for regular maintenance, repair, and upgrades to keep them functional, and while work can
169 sometimes be deferred in an office or storage building without compromising the mission, that is not
170 the case for HTSF and other purpose-built assets like laboratories, testing facilities, and buildings
171 housing highly specialized scientific activities that if allowed to decline could severely undermine
172 NASA's ability to carry out its mission. While NASA's real property portfolio ages and the cost of
173 maintenance and upgrades increases, the funding NASA has to work with has remained flat, leaving
174 limited funding to go towards assets that are not mission-critical, many of which are obsolete historic
175 properties.

176
177 Furthermore, in 2015 the Office of Management and Budget released the *National Strategy for the*
178 *Efficient Use of Real Property* (National Strategy), which is the federal framework to improve real
179 property management by freezing growth of the federal real property inventory, measuring
180 performance to identify opportunities for improvements in efficiency, and finally reducing the size of
181 the inventory through consolidation, colocation, or disposal of properties. The National Strategy's
182 companion policy is *Reduce the Footprint*, which requires federal agencies to aggressively dispose of
183 surplus properties, make more efficient use of the Government's real property assets, and reduce the
184 total square footage of their domestic office and warehouse inventory relative to an established
185 baseline. As a result, the NASA Mission Support Council (MSC) has aggressively promoted rightsizing
186 through facilities consolidation and is undertaking an agency-wide review of assets for the purpose of
187 identifying those to sustain, invest in, outgrant, or divest.

188
189 The purpose of this Agencywide Programmatic Agreement (APA) is to create an alternate process by
190 which NASA can meet its responsibilities to manage its U.S. real property assets under Sections 106
191 and 110 of the NHPA in manner that accommodates NASA's unique challenges in managing its
192 historic properties. The APA includes the following components:

- 193
- 194 • It incorporates an approach to historic property identification that is a hybrid of traditional
195 evaluation and predictive modeling, so that the agency may focus limited financial and
196 personnel resources on recognizing historic properties rather than on demonstrating lack
197 of significance;
 - 198 • It establishes parameters for determining adverse effects that reflect the HTSF nature of
199 NASA Centers and assets;
 - 200 • It reinforces the consideration of alternatives to adverse effects in consultation with Section
201 106 stakeholders at the early stages of asset planning; and
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- It establishes programmatic mitigation measures to address cumulative effects, as well as standard asset-specific mitigation for classes of undertakings, that build upon NASA’s already robust recordation and information-sharing infrastructure to maximize broad public access, utility, and engagement.

RECITALS

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

WHEREAS, NASA Centers are active research institutions that have developed around HTSF (HTSF Districts) and the design, construction, and physical appearance of HTSF Districts are determined largely by functional needs; and

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

WHEREAS, NASA recognizes that there are areas within HTSF Districts that have a unique and distinguishable design aesthetic reflective of NASA history and culture (Heritage Zones, Appendix X – Heritage Zones), and that measures should be taken to preserve that aesthetic; and

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

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

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

WHEREAS, the decision to sustain, invest, outgrant, or divest Assets is substantially determined years in advance of the action being carried out through decisions made during the Center master planning

247 process, and NASA has determined that consideration of feasible alternatives to adverse effects should
248 occur at these early planning stages during the development of the Center Master Plan (CMP); and
249

250 **WHEREAS**, NASA has developed the APA to streamline the Section 106 process so that its limited
251 resources may be used to maximum public benefit consistent with federal agency responsibilities under
252 the NHPA; and
253

254 **WHEREAS**, the APA will apply to multiple individual but similar undertakings across multiple states,
255 such that the use of a programmatic agreement is appropriate to complete the Section 106 process
256 (36 CFR § 800.14(b)(1)(i)); and
257

258 **WHEREAS**, the APA does not invalidate NASA’s other programmatic agreements or any other of its
259 Section 106 agreements, including project-specific memoranda of agreement (MOAs); and
260

261 **WHEREAS**, NASA consulted with the ACHP and the National Conference of State Historic Preservation
262 Officers (NCSHPO) pursuant to 36 CFR Part 800; and
263

264 **WHEREAS**, NASA invited 80 federally recognized Indian Tribes (Tribes) (Appendix X – Indian Tribes
265 Invited to Consult) and Tribal Historic Preservation Officers (THPOs) with a demonstrated interest in
266 NASA undertakings at its Centers nationwide to consult on the development of this APA (or
267 Agreement) pursuant to 36 CFR Part 800; and
268

269 **WHEREAS**, NASA invited the National Trust for Historic Preservation (NTHP) and the National
270 Association of Tribal Historic Preservation Officers (NATHPO) to consult (Appendix X – Additional
271 Consulting Parties); and
272

273 **WHEREAS**, NASA provided opportunities for public review and comment through formal public notice
274 in the Federal Register [dates of publication here], and through the NASA Environmental Management
275 Division (EMD) Cultural Resources Management web page; and
276

277 **NOW, THEREFORE**, NASA, ACHP, and NCSHPO agree that implementation of the APA in
278 accordance with the following stipulations will allow NASA to meet its responsibilities under Section
279 106 of the NHPA for the undertakings subject to the APA.
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STIPULATIONS

NASA will ensure the following stipulations are carried out for any Undertaking for which this APA is used to comply with Section 106.

00. APPLICABILITY**00. Use at NASA Centers**

The APA shall be used to satisfy Section 106 requirements for Projects at NASA Centers that do not have a Center-wide programmatic agreement in place (Appendix X – NASA Center-wide Programmatic Agreements). At such time as a Center-wide programmatic agreement expires or is terminated, that Center shall be governed by the APA. Should a Center-wide programmatic agreement be executed, the APA shall no longer govern activities at that Center. Centers to which the APA applies shall be referred to in the APA as Participating Centers.

00. Exclusion of Projects Affecting National Historic Landmarks (NHLs)

Public Law 96-344, signed by President Carter in September 1980, directed the SOI to conduct a study of “locations and events associated with the historical theme of Man in Space,” to include “potential action alternatives” for their protection. In response, the National Park Service (NPS) initiated the *Man in Space National Historic Landmark Theme Study*, which resulted in the designation of 24 NASA and U.S. Air Force properties as NHLs for their direct contribution to the 1969 moon landing. In October 1989, the *Programmatic Agreement among the National Aeronautics and Space Administration, the National Conference of State Historic Preservation Officers, and the Advisory Council on Historic Preservation* was executed to resolve adverse effects to NASA’s newly designated NHLs from demolition and modification. The APA does not apply to Assets governed by the NHL PA, being NHLs specifically identified in Attachment 1 of that agreement, so long as that agreement remains in effect.

00. ROLES AND RESPONSIBILITIES**00. NASA****00. 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 Manager (CRM) at each Center. The FPO is responsible for overseeing the implementation of the APA for the agency, including the initial completion of the APA programmatic mitigation. The FPO shall serve as the liaison between NASA, the ACHP, and the NCSHPO for the purposes of APA implementation,

327 and shall be NASA’s decision-maker on amendments or disputes arising from the
328 APA.

329
330 00. NASA Center Cultural Resource Manager
331

332 The Center CRM is responsible for implementing NASA Cultural Resource
333 Management Program activities at the Centers. The Center CRM shall distribute a
334 copy of the APA to all appropriate Center personnel involved in carrying out actions
335 under the agreement. The Center CRM shall determine if the APA applies to a Project
336 and shall be responsible for carrying out the terms of the APA at the Center level,
337 including participation in Center master planning efforts, coordinating with Center
338 Construction of Facilities (CoF) Program Managers on the requirements of the APA,
339 and preparing Center content for APA annual reports. The CRM is the primary point-
340 of-contact between NASA and Center Consulting Parties, including the relevant State
341 Historic Preservation Office (SHPO) and Tribes. The Center CRM shall take the lead in
342 preparing the Asset Lists (defined below) and ensuring that Gate-to-Gate (G2G)
343 Surveys are carried out consistent with the terms of the APA. The Center CRM is also
344 responsible for ensuring that NRHP evaluations are carried out by SOI-qualified
345 personnel, and for entering, updating, and maintaining the accuracy of Asset NRHP
346 evaluation status in the NASA Environmental Tracking System (NETS).
347

348 00. NASA Center Construction of Facilities Program Manager
349

350 The CoF Program Manager is responsible for ensuring that NASA plans for, funds,
351 and carries out NHPA requirements when planning for new mission needs and Projects
352 in coordination with the Center CRM. Under the APA, the CoF Program Manager is
353 responsible for engaging the Center CRM early in the Project planning process to
354 enable meaningful consultation with stakeholders as stipulated herein and for ensuring
355 that Project funding includes the cost of mitigation measures.
356

357 00. NASA Center Master Planner
358

359 The Center Master Planner is responsible for coordinating with the Center CRM on
360 master planning initiatives, including development, revision, and updating of the CMP.
361 Under the APA, the Center Master Planner shall notify the Center CRM in advance of
362 master planning initiatives, work with the Center CRM to schedule consultation
363 meetings to discuss effects to historic properties, and ensure that such consultation is
364 considered in the master planning process and in developing recommendations to
365 sustain, invest, outgrant, or divest Assets.
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00. NASA Center Real Property Accountability Officer

The Center Real Property Accountability Officer is responsible for coordinating with the CRM to ensure Asset evaluation status is accurately reflected in the NASA’s Real Property Management System (RPMS).

00. **Advisory Council on Historic Preservation**

At any time, NASA or any party 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. When invited to comment by a consulting party or any party, the ACHP will follow provisions in Stipulation 00 [Dispute Resolution].

00. **Consulting Parties**

For the purposes of the APA there will be three sets of consulting parties—APA Consulting Parties, Center Consulting Parties, and Center Consulting Tribes. Their respective roles are described below.

00. APA Consulting Parties

The consulting parties to the APA are the ACHP, NCSHPO, the NTHP, and the federally recognized Tribes that elected to participate (Appendix X – Indian Tribes Invited to Consult). Additional APA Consulting Parties may be designated via an amendment to this agreement. 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 identified by NASA as a Center Consulting Party under Stipulation 00 [Center Consulting Parties].

00. Center Consulting Parties

Center Consulting Parties are consulting parties with a demonstrated interest in historic properties at a Center, with which NASA shall consult under the 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 as described under Stipulation 00 [Center Consulting Tribes] are a subset of Center Consulting Parties.

00. Center Consulting Tribes

When this term is used in the APA, it denotes only the Tribes from within the larger group of Center Consulting Parties. These Tribes have a demonstrated interest in historic and cultural properties at the Center, especially as it comes to ground disturbance.

412 **00. ASSET MANAGEMENT CATEGORIES**

413
414 NASA shall use Management Categories to manage its Assets at Centers governed by the APA. NASA
415 Assets shall be assigned one of the following Management Categories based upon their known or
416 potential level of historical significance, consistent with the process detailed in Appendix X –
417 Categorization of Assets.

418
419 **00. Category 1 Assets**

420
421 Category 1 Assets: (1) possess individual historical significance on a national level; (2) are
422 directly associated with NASA’s core missions; and (3) retain a high degree of physical
423 integrity. Category 1 Assets are uniquely representative of NASA’s core missions and as such
424 they are not commonplace outside of the agency. They are the most historically significant of
425 NASA’s Assets and are afforded the highest level of consideration under the terms of the APA.

426
427 **00. Category 2 Assets**

428
429 Category 2 Assets: (1) possess individual historical significance on a national level
430 independent of their association with NASA’s core missions, or they possess individual
431 historical significance on the state or local level either in association with or independent of
432 NASA’s core missions; and (2) they retain a high degree of physical integrity.

433
434 **00. Category 3 Assets**

435 Assets that do not meet the criteria for Category 1 or 2 Assets are Category 3 Assets.

436
437 **00. IDENTIFICATION OF HISTORIC PROPERTIES**

438
439 To aid in the implementation of the APA and to fulfill its responsibility to identify built historic
440 properties under its ownership or control, NASA shall carry out identification of historic properties as
441 set forth in this stipulation for Participating Centers.

442
443 **00. Gate-to-Gate Surveys**

444
445 Within five years of the execution of the APA, a comprehensive gate-to-gate survey of Assets
446 (G2G Survey) shall be performed at Participating Centers. Thereafter, NASA shall update
447 G2G Surveys every ten years.

448
449 **00. Use of Qualified Professionals**

450
451 Identification under this stipulation shall be performed by personnel that: (1) meet the
452 *SOI Professional Qualifications Standards* in the field of Architectural History; and (2)
453 possess demonstrated expertise in NASA history and built resources and in applying
454 the NRHP Criteria to NASA (or similar) resources.

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00. Scope of G2G Surveys

00. Assets to be Evaluated

Assets shall be evaluated for listing in the NRHP as individual resources within the historic contexts most likely to be relevant to the Asset. If found individually eligible, evaluations shall indicate the level of significance (i.e., national, State, and/or local). NASA shall not be required to evaluate Assets for potential eligibility as contributing properties to a historic district.

For Assets that are less than 50 years of age (i.e., between 40 and 49 years of age) at the time of their evaluation in the G2G Surveys, NASA shall apply the standard NRHP Criteria as if the Asset was 50 years of age or older.

The Center CRM will review the data in NETS to determine which Assets should be evaluated in the G2G Survey. Assets that will not require evaluation in the G2G Survey are those that meet the following criteria:

- They have been evaluated for individual eligibility within the last twenty years with documented SHPO concurrence, and they have not turned 50 years of age since their evaluation; or
- They are in FCCS Facility Classes 5, 7, 8, or 9; or
- They are less than 40 years of age.

00. Preliminary Identification under NRHP Criterion C and CCG

G2G Surveys shall identify Assets less than 40 years of age deemed likely to be eligible under NRHP Criterion C and CCG for exceptional architectural design significance.

00. G2G Survey Reports

G2G Survey Reports shall include a comprehensive list of Assets (Asset List) that provides the following information:

- Asset number, name, date of construction, and FCCS Class Code;
- For formally evaluated Assets, their individual NRHP evaluation status, applicable Criteria, date of most recent evaluation, and date of SHPO concurrence;
- For Assets not evaluated, the reasons for their exclusion per Stipulation 00 [Assets Not Requiring Evaluation];
- Assets identified under Stipulation 00 [Preliminary Identification under NRHP Criterion C and CCG];

- 498 • If the Assets are located within a Heritage Zone; and
- 499 • The assigned Management Category per Stipulation 00 [Management
- 500 Categories] under which the Asset will be managed.

501
502 G2G Survey Reports shall include maps that show the location of all Assets coded
503 according to Management Category and the boundaries of Heritage Zones.

504
505 G2G Survey Reports shall be prepared consistent with applicable SHPO standards.
506 Should the SHPO standards be in conflict with the requirements of the APA, then the
507 APA shall take precedence.

508
509 00. Review of G2G Survey Reports

510
511 The Center CRM shall submit the G2G Survey Report electronically to the SHPO via
512 email or web-based file share. The SHPO review period shall be 45 days, unless
513 NASA and the SHPO agree in writing to a specified extension. During this review
514 period, the SHPO may perform a site visit to aid in their review of the G2G Survey
515 Report. By the end of the review period, the SHPO shall notify the Center CRM via
516 email of its concurrence or disagreement with the findings.

517
518 If the SHPO does not concur with one or more of NASA's findings, then it shall
519 provide notification to the Center CRM in writing that indicates: 1) the findings that are
520 the subject of dispute; and 2) the findings with which it concurs. The Center CRM shall
521 schedule a conference call or meeting with the SHPO to consult regarding the
522 disagreement, and shall invite the Center Consulting Parties to participate. NASA and
523 the SHPO shall work to reach consensus on the findings that are the subject of the
524 dispute. If consensus is reached, then NASA shall incorporate it into the G2G Survey
525 Report.

526
527 If NASA determines that consensus cannot be reached within 30 days of the
528 consultation call or meeting, then it shall do the following as applicable:

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530 00. If there is disagreement regarding the NRHP evaluation of individual
531 Assets under Stipulation 00 [Evaluation of Assets], then the FPO shall submit a
532 formal request to the Keeper of the National Register (Keeper). The submittal
533 to the Keeper shall include the G2G Survey Report, a cover letter indicating
534 the Assets that are the subject of the disagreement, and written comments
535 received from the SHPO and other Center Consulting Parties. NASA shall
536 accept the decision of the Keeper and incorporate it into the G2G Survey
537 Report.

538
539 00. If there is disagreement regarding NASA's findings other than the
540 NRHP evaluation of individual Assets under Stipulation 00 [Evaluation of
541 Assets], then the Center CRM shall submit the G2G Survey Report to the FPO,

542 along with any written comments received from the SHPO and other Center
543 Consulting Parties. The FPO shall consider the input received and render a
544 final decision, after which NASA shall incorporate it into the G2G Survey
545 Report.
546

547 NASA shall send a copy of the finalized G2G Survey Report to the SHPO, copying the
548 other Center Consulting Parties, and shall make the report available to the public on
549 the Center website. NASA shall thereafter manage its Assets under the APA consistent
550 with the final G2G Survey Report until the next G2G Survey.
551

552 **00. Heritage Zone Design Guidelines**

553
554 Centers with Heritage Zones may elect to develop Heritage Zone Design Guidelines to
555 manage Projects within Heritage Zones in a manner that preserves their unique and
556 distinguishable design aesthetic. If a Heritage Zone falls entirely within identified NRHP-
557 eligible or listed historic district, and that Center has SHPO-approved historic district design
558 guidelines for that historic district, then those design guidelines may be used as Heritage Zone
559 Design Guidelines.
560

561 **00. PROJECT TYPES**

562
563 Authorized by NASA Procedural Directive (NPD) 8810.2, *Master Planning for Real Property*, and
564 required by NASA Procedural Requirement (NPR) 8810.1, *Center Master Planning*. Center Master
565 Plans (CMPs) are the localized implementation of the Agency Master Plan (AMP) informed by the
566 strategic planning vision of each Center. CMPs reflect the strategic vision of the Center but align with
567 the AMP through a collaborative process between the Center master planners and Agency master
568 planners in the Office of Strategic Infrastructure's (OSI) Facilities and Real Estate Division (FRED). In
569 the AMP and the CMP, as defined by FRED, Assets are assigned to one of four paths:
570

571 **00. Sustain**

572
573 These Assets have clear mission significance, a future need, and are in good condition. The
574 goal is general maintenance to sustain these assets at their current condition. No
575 major/significant investments are known to be needed. Section 106 undertakings on this path
576 may include routine maintenance and repair to occur as need and funding arises.
577

578 **00. Invest**

579
580 These Assets have high mission significance, a future need, and are in poor condition. The
581 goal is to rehabilitate these Assets to a mission ready condition. Section 106 undertakings on
582 this path may include major repair, renovation/modification, and new construction.
583
584
585

586 **00. Outgrant**

587
588 These Assets have low mission significance and no future need but are in good condition. The
589 goal is to keep these Assets standing and used by someone else. Section 106 undertakings on
590 this path include outgrants to federal or non-federal entities.
591

592 **00. Divest**

593
594 These Assets have a low mission significance, no future need, and are in poor condition. The
595 goal is to terminate NASA ownership of these Assets ultimately through demolition. Section
596 106 undertakings on this path are identified as “path to divestment” which considers
597 mothballing, abandonment, or asset transfer to federal and non-federal entities before
598 demolition.
599

600 Informed by recommendations from FRED, the Centers further evaluate which path an Asset will take
601 and detail the specific Projects that will occur as a result.
602

603 **00. CONSULTATION MATRIX**

604
605 NASA shall determine the appropriate level of consultation for each Project based upon the table
606 below. A description of the Project types listed in the table is provided in Appendix X – NASA Project
607 Types.
608

| | | Outside Heritage Zones | Inside Heritage Zones |
|-----------------|---|---|---|
| Sustain | Routine Repair & Maintenance | No Project Review | No Project Review |
| Invest | Major Repair | No Project Review; Ground Disturbance Protocols Apply | No Project Review; Ground Disturbance Protocols Apply |
| | Renovation/Modification, within existing envelope | No Project Review | Consult |
| | Renovation/Modification, beyond existing envelope | No Project Review; Ground Disturbance Protocols Apply | Consult; Ground Disturbance Protocols Apply |
| | New Construction | No Project Review; Ground Disturbance Protocols Apply | Consult; Ground Disturbance Protocols Apply |
| Outgrant | Federal/Non-Federal | No Project Review | No Project Review |
| Divest | Demolition | Consult (Category 1 and 2 Assets, only); Ground Disturbance Protocols Apply | Consult; Ground Disturbance Protocols Apply |
| | Mothballing/Abandonment | Mitigate (Category 1 and 2 Assets, only) | Consult |
| | Asset Transfer, to federal entity | No Project Review | No Project Review |
| | Asset Transfer, non-federal entity | Mitigate (Category 1 and 2 Assets, only) | Consult |

609

610 **00. No Project Review**

611
612 NASA may proceed with these Projects without individual project review per Stipulation 00
613 [Individual Project Review]. Adverse effects to Assets, should they occur, will be mitigated
614 through Programmatic Mitigation.

615
616 **00. Consult**

617
618 For these Projects, NASA shall consult per Stipulation 00 [Individual Project Review].
619

620 **00. Mitigate**

621
622 Should these Projects involve Category 1 or 2 Assets, NASA shall complete mitigation
623 measures per Stipulation 00 [Treatment Measures] as applicable.
624

625 **00. Ground Disturbance Protocols Apply**

626
627 For these Projects, NASA shall proceed consistent with Stipulation 00 [Ground Disturbance].
628

629 **00. CONSIDERATION OF HISTORIC PROPERTIES IN CENTER PLANNING**

630
631 NASA shall make a reasonable and good faith effort to identify feasible alternatives to adverse effects
632 in the earliest possible stages of Project planning. For Projects within identified Heritage Zones, NASA
633 shall give special consideration to the maintenance of the design aesthetic, and shall, to the extent
634 possible while meeting mission requirements, ensure new construction that is compatible with the
635 Heritage Zone aesthetic. If a Center has SHPO-approved Heritage Zone Design Guidelines in place,
636 the Center shall strive to conform to the guidelines to the extent possible while meeting mission
637 requirements. To these ends, NASA shall carry out the following at Participating Centers.

638
639 **00. Center Master Plan**

640
641 **00. CMP Consultation Plan**

642
643 NASA shall engage the Center Consulting Parties in the development of the CMP to
644 allow for consideration of alternatives to avoid adverse effects to historic properties.
645 The Center CRM shall work with Center master planners to develop a consultation
646 plan no later than six months prior to beginning the process to update the CMP. The
647 CMP Consultation Plan shall include:

- 648
649
- 650 • the overall CMP update timeline;
 - 651 • points during the process where consultation meetings with Center Consulting Parties will occur, such as an in-person Center site visit; and

- 652
- expected date for the delivery of the draft CMP to the Center Consulting Parties and timeline for their review.
- 653
- 654

655 The Center CRM shall deliver a draft CMP Consultation Plan electronically to the
656 SHPO, copying the Center Consulting Parties. The SHPO will have 30 days to review
657 the draft CMP Consulting Plan and to respond to NASA in writing that it does or does
658 not concur with the plan as presented.

659

660 00. If the SHPO concurs, then NASA shall consider the CMP Consultation
661 Plan final and shall proceed accordingly.

662

663 00. If the SHPO does not concur, then it shall provide suggested revisions
664 to the plan for NASA's consideration. NASA shall have 30 days to evaluate
665 the feasibility of the SHPO's revisions and to finalize the CMP Consultation
666 Plan. NASA shall send the final CMP Consultation Plan to the SHPO, copying
667 the Center Consulting Parties, with a cover letter indicating any revisions that
668 were not accepted and providing justification. Thereafter NASA shall proceed
669 according to the final CMP Consultation Plan.

670

671 If the SHPO is not able to attend consultation meetings scheduled under the CMP
672 Consultation Plan, NASA shall provide PowerPoint or similar presentation materials,
673 summary notes, and/or additional supporting materials as appropriate to keep the
674 SHPO informed on the CMP update process. The SHPO shall have 30 days to review
675 these materials and to provide their comments in writing to the NASA Center CRM.

676

677 NASA shall maintain a record of potential adverse effects to historic properties
678 discussed during the CMP update process, the alternatives considered, and the final
679 recommendations integrated into the CMP.

680

681 00. Integration of Historic Properties into CMP

682

683 CMPs shall integrate information about historic properties and Heritage Zones into the
684 development plans, including a specific section listing NHLs, Category 1 and 2 Assets,
685 and describing Heritage Zones and their CDFs. Heritage Zones shall be denoted on
686 the Center regulating and development plans as areas of heightened design sensitivity
687 subject to consultation under the APA.

688

689

690 **00. Integrated Cultural Resources Management Plans**

691
692 Center ICRMPs will be revised to include information relevant to the APA, including:

- 693
694
- A copy of the executed APA, or link to its location;
 - Assets Lists for the Center;
 - Maps and descriptions of Heritage Zones; and
 - Standard Operating Procedures (SOPs) for Center G2G Survey consistent with the APA.
- 695
696
697
698
699

700 **00. REVIEW OF INDIVIDUAL PROJECTS**

701
702 **00. Annual CoF Program Review**

703
704 Once a year the Center CoF Program Manager and the Center CRM shall meet to discuss
705 upcoming proposed Projects for the fiscal year, and identify any of those Projects that have the
706 potential to adversely affect historic properties per Stipulation 00 [Consultation Matrix].

707
708 **00. Assigning Management Categories**

709
710 If a Project is being implemented prior to the completion of the first G2G Survey Report
711 prepared per Stipulation 00 [G2G Survey], then the Center CRM shall assign a Management
712 Category to all Assets within the Project area of potential effects (APE) per Appendix X –
713 Categorization of Assets, and shall utilize these Management Categories for the duration of
714 Project consultation.

715
716 **00. Projects Occurring Outside Heritage Zones**

717
718 **00. Demolition of Category 1 or 2 Assets**

719
720 For Projects involving demolition of Category 1 or 2 Assets outside of Heritage Zones,
721 NASA shall follow these procedures. Demolition within Heritage Zones is covered
722 under Stipulation 00 [Projects Inside Heritage Zones]. As indicated in the Consultation
723 Matrix, all other demolition at Participating Centers shall require no Project-specific
724 review and adverse effects, should they occur, will be mitigated through completion of
725 Programmatic Mitigation per Stipulation 00 [Programmatic Mitigation].

726
727 At such time the CoF program determines that a Project involving demolition of a
728 Category 1 or 2 Asset will move forward, they will notify the Center CRM accordingly,
729 and will work with the Center CRM to prepare a Project Initiation Letter with the
730 following information:

- 731
- Description of the Project, with a timeline for completion;
- 732

- 733
- 734
- 735
- 736
- 737
- 738
- 739
- Assets located within the APE and their corresponding Management Category; and
 - A description of the alternatives considered to avoid adverse effects, why they were rejected, and the proposed mitigation per Stipulation 00 [Treatment of Category 1 Assets] and/or Stipulation 00 [Treatment of Category 2 Assets], as applicable.

740 NASA shall submit the Project Initiation Letter via email to the SHPO, copying the

741 Center Consulting Parties. The SHPO and Center Consulting Parties shall have 30

742 days to review the Project Initiation Letter and provide comments in writing to the

743 Center CRM. Center Consulting Parties may provide potential alternatives for

744 consideration as well as preferred mitigation measures. NASA shall consider the

745 comments received, and shall notify the SHPO and Center Consulting Parties in

746 writing of its final decision. Thereafter, NASA shall proceed consistent with that

747 decision and, if applicable, APA treatment measures.

748

749 00. Mothballing, Abandonment, and Transfer Out of Federal Control

750

751 For Projects that involve mothballing, abandonment, or transfer of Category 1 or 2

752 Assets out of federal control, NASA will notify the SHPO via email, copying the other

753 Center Consulting Parties, and providing the following information:

754

- 755
- 756
- 757
- 758
- 759
- 760
- 761
- Description of the Project, with a timeline for completion;
 - Category 1 and 2 Assets that are the subject of the undertaking;
 - Measures taken to avoid adverse effects to these Assets and the reasons for their rejection; and
 - The selected mitigation measures under Stipulations 00 [Treatment of Category 1 Assets] and 00 [Treatment of Category 2 Assets].

762 Thereafter NASA shall proceed with the Standard Treatment Measures.

763

764 00. **Projects Inside Heritage Zones**

765

766 00. Project Initiation

767

768 At such time CoF determines that a Project occurring in whole or in part within a

769 Heritage Zone will move forward, they will notify the Center CRM accordingly. The

770 Center CRM will consult the APA Consultation Matrix and, and if consultation is

771 warranted, the CoF will work with the Center CRM to prepare a Project Initiation Letter

772 with the following information:

773

- 774
- Description of the Project, with a timeline for completion;

- 775
- 776
- 777
- 778
- Assets located within the APE and their corresponding Management Category; and
 - A preliminary determination of effects.

779 NASA shall submit the Project Initiation Letter via email to the SHPO, copying the
780 Center Consulting Parties. The SHPO and Center Consulting Parties shall have 30
781 days to review the Project Initiation Letter and provide comments in writing to the
782 NASA Center CRM. Thereafter, NASA will proceed with Stipulation 00 [Concept
783 Review].

784

785 00. Concept Review

786

787 No later than 45 days after submittal of the Project Initiation Letter, NASA shall consult
788 with the SHPO on the potential effects of the Project on the Heritage Zone and
789 individual Category 1 or 2 Assets within it, and ways to avoid adverse effects.
790 Consultation may be via face-to-face meetings, online meeting platform, conference
791 call, or email.

792

793 NASA shall consider the comments received during Concept Review and shall notify
794 the SHPO and Center Consulting Parties in writing of its updated determination of
795 effects and intended path forward, per the below.

796

797 00. For Projects involving only demolition, NASA shall proceed with
798 Stipulation 00 [Demolition in Heritage Zones].

799

800 00. For Projects involving only mothballing, abandonment, or transfer of
801 Assets out of federal control, NASA shall proceed with Stipulation 00
802 [Mothballing, Abandonment, and Transfer Out of Federal Control in Heritage
803 Zones].

804

805 00. For Projects involving renovation, modification, or new construction,
806 NASA shall proceed with Stipulation 00 [Renovation, Modification, and New
807 Construction in Heritage Zones].

808

809 00. Demolition in Heritage Zones

810

811 00. If Category 1 or 2 Assets are to be demolished, then NASA shall
812 complete the Standard Treatment Measures for Heritage Zones (Stipulation 00
813 [Treatment of Heritage Zones]), and for Category 1 and 2 Assets (Stipulations
814 00 [Treatment of Category 1 Assets] and 00 [Treatment of Category 2 Assets],
815 as applicable.

816

817 00. If Category 3 the Asset(s) are to be demolished, then NASA shall
818 complete the Standard Treatment Measures for Heritage Zones (Stipulation 00
819 [Treatment of Heritage Zones]), only.
820

821 00. Mothballing, Abandonment, and Transfer Out of Federal Control in Heritage
822 Zones
823

824 NASA shall consider the comments received during Concept Review and shall notify
825 the SHPO and Center Consulting Parties in writing of its final determination of effects
826 and intended resolution. If NASA determines that it will proceed with mothballing,
827 abandonment, or transfer out of federal control within the Heritage Zone, then NASA
828 shall complete the Standard Treatment Measures for Heritage Zones (Stipulation 00
829 [Treatment of Heritage Zones])
830

831 00. Renovation, Modification, and New Construction in Heritage Zones
832

833 00. Projects Conforming to Heritage Zone Design Guidelines
834

835 For Projects occurring in whole or in part within Heritage Zones that are, as
836 determined by NASA, consistent with SHPO-approved Heritage Zone Design
837 Guidelines, NASA shall submit the 60% Design Package to the SHPO, copying
838 the Center Consulting Parties. The design package shall also include a letter
839 explaining NASA's determination that it conforms to the design guidelines. The
840 SHPO and Center Consulting Parties shall have 30 days to review the 60%
841 Design Package and provide their comments in writing to NASA.
842

843 If the SHPO concurs in writing that the design is in conformance with the
844 Heritage Zone Design Guidelines, then NASA may proceed with Project
845 development and execution without further consultation under Stipulation 00
846 [Projects Conforming to Heritage Zone Guidelines].
847

848 If the SHPO does not concur, then it will respond in writing explaining its
849 position with recommendations on how the Project may be revised to bring it
850 into conformance. NASA shall consider SHPO's recommendations and do one
851 of the following:
852

853 00. Adopt the recommendations as proposed, in which case NASA
854 shall respond accordingly to the SHPO in writing and thereafter
855 proceed with the Project consistent with the revised design.
856

857 00. Adopt the recommendations in part, or reject the
858 recommendations, in which case NASA shall respond to the SHPO in
859 writing, indicating how the recommendations were considered and the

860 reasons for their rejection. Thereafter, NASA shall proceed with the
861 Project consistent with its chosen path.

862
863 **00. Projects Not Conforming to Heritage Zone Design Guidelines**

864
865 NASA shall submit a 60% Design Package to the SHPO, copying the Center
866 Consulting Parties. NASA may elect to include more than one design
867 alternative at this stage to facilitate consultation. The SHPO and Center
868 Consulting Parties shall have 30 days to review the 60% Design Package and
869 provide their comments in writing to NASA.

870
871 **00.** If at any stage in the consultation process the SHPO notifies
872 NASA in writing that the proposed design is acceptable and, in its
873 opinion, will not adversely affect the Heritage Zone or individual
874 Category 1 and 2 Assets, then NASA may proceed with Project
875 development and execution without further consultation under
876 Stipulation 00 [Projects Not Conforming to Heritage Zone Guidelines].

877
878 **00.** If, after reviewing the 60% Design Package, the SHPO does
879 not concur that the Project will not adversely affect the Heritage Zone
880 or individual Category 1 or 2 Assets, then NASA may elect to continue
881 consultation to avoid adverse effects.

882
883 If NASA determines that adverse effects cannot be avoided, then it will
884 NASA will notify the SHPO, copying the Center Consulting Parties, of
885 its decision in writing, with the intended 60% design, and the
886 mitigation measures proposed under Stipulation 00 [Treatment of
887 Heritage Zones].

888
889 **00. Inclusion of Center Consulting Party Input in Bid Requirements**

890
891 If NASA intends to put a Project out to bid, then it will incorporate input received from the
892 SHPO and other Center Consulting Parties into the requirements for the bid package for the
893 purpose of encouraging bidders to develop proposals that avoid adverse effects. Bid
894 requirements packages will clearly indicate if the Project is located within a Heritage Zone, will
895 identify all Category 1 or 2 Assets within the APE, and will indicate where Standard Treatment
896 Measures may be required if adverse effects are not avoided.

897
898 **00. Re-initiation of Project Consultation**

899
900 In the event that a Project reviewed under Stipulation 00 [Review of Individual Projects] is not
901 executed within five years of the resolution of consultation for the Project under the APA
902 procedures, or should the scope of a Project change substantially such that the nature of
903 potential adverse effects and the Assets affected would be different than originally understood,

904 then NASA shall be required to re-initiate Project consultation per Stipulation 00 [Review of
905 Individual Projects].
906

907 **00. PROGRAMMATIC MITIGATION**
908

909 For Centers participating in the APA (Participating Centers), NASA will complete the following
910 treatment measure to mitigate for cumulative effects resulting from adverse effects to historic
911 properties from the Undertaking.
912

913 **00. Digital Map**
914

915 NASA shall create a new public website where it will maintain a digital map (Digital Map) for
916 the Centers for which the APA applies, reflecting their condition at that time, identifying extant
917 Category 1 Assets and other key Assets and resources, and linking to image, video, and
918 textual resources that describe the historical use and significance of the Asset. The Digital Map
919 will show current satellite imagery, with georeferenced documentary/historic aerials and maps
920 that depict the Centers during several time periods, one of which will be during or immediately
921 after its initial build-out. The Digital Map will link to documentary/historic photography,
922 Historic American Buildings Survey (HABS) or Historic American Engineering Record (HAER)
923 recordation, architectural survey reports, primary resource material such as videos and oral
924 history interviews, and other resources as appropriate. Physical or functional relationships
925 between Assets at different Centers may be represented visually and/or through links.
926

927 NASA shall have five years from the execution of the APA to complete an initial, fully
928 functional version of the Digital Map. During this period NASA shall report on the progress of
929 the Digital Map annually under Stipulation 00 [Annual Reporting]. Once the initial version is
930 completed, NASA shall regularly update and add to the Digital Map as a living web-based
931 resource as documentation of Assets becomes available. NASA shall report on development
932 of the Digital Map annually under Stipulation 00 [Annual Reporting], and shall provide the
933 respective SHPOs and consulting parties to the APA the opportunity to review and comment
934 on the Digital Map on an annual basis, including ways to enhance the product and maximize
935 public exposure.
936

937 NASA shall maintain the Digital Map for the duration of the APA. Prior to the anticipated
938 termination or expiration, NASA shall consult with the ACHP and NCSHPO to develop a plan
939 for the maintenance of the Digital Map by NASA or another entity or entities, or if no such
940 entity is identified, a plan for the permanent curation of the information contained in the
941 Digital Map.
942
943

944 00. STANDARD TREATMENT MEASURES

945

946 00. Treatment of Heritage Zones

947 When it is determined that mitigation is warranted under Stipulation 00 [Projects Inside
948 Heritage Zones] NASA shall elect to proceed with one of two options.

949

950 00. Option 1 – Update Digital Map

951

952 NASA shall undertake documentation of the Heritage Zone as it currently exists prior
953 to construction and update the Digital Map, as mitigation for the impact to the
954 Heritage Zone, or NASA shall proceed with Option 2.

955

956 00. Option 2 – Research Heritage Zone

957

958 NASA shall complete research on the Heritage Zone and its associated design
959 aesthetic, and/or architect(s) involved in creating the design to generate a historic
960 context report for the Heritage Zone. Once completed the research and
961 accompanying report will be uploaded electronically to the Digital Map.

962

963 00. Treatment of Category 1 Assets

964

965 For Category 1 Assets, NASA shall elect to proceed with one of two options.

966

967 00. Option 1 – Recordation

968

969 NASA shall prepare a HABS or HAER recordation package for the Asset, which will be
970 formally submitted to the National Park Service (NPS) Heritage Documentation
971 Program (HDP) for accession by the Library of Congress. The recordation shall be
972 Level II, unless no original drawings of the Asset exist, in which case the recordation
973 will be Level I.

974

975 NASA shall undertake recordation of the Asset prior to commencing work. Upon
976 completion, NASA shall submit an electronic copy of the final recordation package to
977 the SHPO, and shall upload the electronic version of the recordation package to the
978 Digital Map.

979

980 In the event that the Asset has been previously recorded to HABS/HAER standards,
981 then NASA may elect to record an alternate Category 1 Asset to HABS/HAER
982 standards, or shall proceed with Option 2.

983

984

985 00. Option 2 – Alternative Mitigation

986
987 NASA shall develop a written mitigation plan that outlines measures proposed to offset
988 the loss of the Asset. Measures in the mitigation plan need not relate directly to the
989 Asset, but must have broad public benefit and be directed towards the preservation
990 and/or interpretation of NASA’s historic properties. The mitigation plan shall include:
991 a scope of work with sufficient detail that it could be used as the basis for solicitation
992 of bids; a timeline for completion; and estimated costs to complete the work and a
993 funding plan.

994
995 The SHPO shall have 30 days to review NASA’s proposed mitigation plan and to
996 respond in writing. If the SHPO concurs with NASA’s determination, or if the SHPO
997 fails to respond within 30 days, then NASA shall proceed with the mitigation plan as
998 proposed. If the SHPO objects to NASA’s mitigation plan, then the parties shall
999 consult to resolve the disagreement for a period not to exceed 30 days. If an
1000 agreement is reached, it shall be documented via email and NASA shall proceed
1001 accordingly. If no agreement is reached, then NASA shall follow the procedures of
1002 Stipulation 00 [Dispute Resolution].
1003

1004 00. Treatment of Category 2 Assets

1005
1006 For Category 2 Assets, NASA shall prepare digital photographic recordation conforming to
1007 the most recent National Park Service (NPS) NRHP requirements for digital images, currently
1008 “National Register Photo Policy Factsheet updated 5/15/2013” (Appendix X – NPS Digital
1009 Photo Policy). The number of views will be sufficient to capture the exterior and, if applicable,
1010 interior character-defining features of the Asset, and will include, at a minimum, the following.
1011

1012 00. Exterior Views

- 1013
1014
 - 10 Exterior views of the Asset within its larger context;
 - 8 Exterior views of the entire Asset, together showing all sides; and
 - Details of character-defining features.

1017 00. Interior Views (if applicable)

- 1018
1019
 - Multiple views of each primary public space (e.g., lobbies);
 - Representative views of major circulation spaces (e.g., hallways);
 - Multiple views of functionally significant work spaces (e.g., laboratories, clean rooms, test chambers), including equipment, instruments, and furniture; and
 - Representative views of administrative spaces (e.g., offices, meeting rooms).

1028 NASA shall undertake recordation of the Asset prior to commencing work. Upon completion,
1029 NASA shall submit an electronic copy of the final recordation package to the SHPO, and shall
1030 link the electronic version of the recordation package to the Digital Map.

1031
1032 In the event that the Asset has been previously recorded in a manner consistent with these
1033 requirements, then NASA shall upload the recordation package to the Digital Map, if it has
1034 not already done so.

1035
1036 **00. GROUND DISTURBANCE PROTOCOLS**

1037
1038 Other provisions of this APA notwithstanding, NASA will complete surveys or other archaeological
1039 studies as outlined in the following section at Participating Centers. All archaeological investigations
1040 carried out under these stipulations shall be performed or supervised by personnel that meet the *SOI*
1041 *Professional Qualification Standards*.

1042
1043 **00. Assessment of Existing Surveys**

1044
1045 Within one year of APA execution, Center CRMs of Participating Centers shall submit all
1046 archaeological surveys, evaluations, and predictive models that meet the respective SHPO
1047 standards, and that don't have SHPO concurrence, for review. SHPOs and the Center
1048 Consulting Tribes shall have 30 days to review and comment on each survey report. NASA
1049 shall contact the SHPO and Center Consulting Tribes via phone to confirm their intent and
1050 capacity to comment within 30 days from receipt of each survey report. NASA will consider
1051 requests from the SHPO and Center Consulting Tribes to extend the review period to 45 days.

1052
1053 If the SHPO or Center Consulting Tribes do not concur on any of the deliverables discussed
1054 herein, then NASA shall either:

1055
1056 00. Defer to the SHPO and Center Consulting Tribes and proceed with Stipulation
1057 00 [Identification of Areas of Archaeological Potential];

1058
1059 00. Convene a meeting with the SHPO and Center Consulting Tribes to discuss
1060 the disagreement and work towards a consensus resolution; or

1061
1062 00. Forward its findings, along with the SHPO's comments and Center Consulting
1063 Tribes' comments, to the Keeper for a decision. The Keeper shall then have 30 days to
1064 render its binding decision, which shall be communicated in writing via email to
1065 NASA, copying the SHPO and Center Consulting Tribes.

1066
1067 If a previous archaeological survey no longer meets current SHPO standards and the area is
1068 defined as warranting a survey, NASA will consider new survey of the area per Stipulation 00
1069 [Identification of Areas of Archaeological Potential].

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00. Identification of Areas of Archaeological Potential

00. Assessment of Archaeological Survey Status

Within three years of the execution of the APA, each Participating Center will complete an assessment of its Archaeological Survey Status. The Assessment of Archaeological Survey Status includes three components:

- A map overlay of all areas that have received an archaeological survey that meets the current standards of the respective SHPO and have SHPO concurrence;
- An assessment of archaeological and cultural sensitivity; and
- An Archaeological Disturbance Assessment.

These three sets of GIS-based maps will determine the approach in the event of an undertaking that requires ground disturbance. NASA shall incorporate this archaeological data into a GIS-based tool to determine the need for archaeological survey or other studies and will maintain and update this data set minimally every five years. If there have been no substantive changes to a NASA Center five years after the APA is executed (e.g., new construction), then the next update shall be performed ten years from the date of the creation of the archaeological disturbance assessment, and every five years thereafter.

00. Mapping of Previous Archaeological Surveys

Each Participating Center will create a GIS data layer that illustrates areas that have been surveyed for archaeological resources to standards currently acceptable to the respective SHPO and are in line with regional standards in an effort to avoid future Section 106 consultation.

00. Mapping of Archaeological and Cultural Sensitivity

Each Center will create GIS data layers that illustrate areas that have low, moderate, or high archaeological potential based on the use of an archaeological predictive model. The archaeological predictive model should include all potential archaeological resources and meet the standards of the respective SHPO.

The GIS data layers will include areas of cultural sensitivity as conveyed to NASA by Center Consulting Tribes. 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.

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00. Archaeological Disturbance Assessment

Within three years of the execution of the APA, Participating Centers will complete an archaeological disturbance assessment. Areas will be defined by one of four criteria:

- No potential, indicating areas 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);
- High disturbance, indicating areas 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; areas where soil remediation has occurred);
- Moderate disturbance, indicating areas 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; a parking lot or ball field); and
- Negligible disturbance, indicating areas where little to no ground disturbance has occurred (e.g., greenfields).

00. Applying the Archaeological Potential Data

The purpose of these data is to inform planning requirements for a Center’s ground disturbing activities. The Archaeological Requirements Matrices (below) outline these requirements, based on the mapping layers outlined in Stipulation 00 [Identification of Areas of Archaeological Potential].

Matrix 1. Previously Surveyed Areas

| Archaeological Sensitivity | Level of Previous Ground Disturbance | | | |
|-----------------------------------|--------------------------------------|--------------------------|--------------------------|------------------------------|
| | No Potential | High Disturbance | Moderate Disturbance | Negligible Disturbance |
| Low Archaeological Potential | No survey; no monitoring | No survey; no monitoring | No survey; no monitoring | No survey; no monitoring |
| Moderate Archaeological Potential | No survey; no monitoring | No survey; no monitoring | No survey; no monitoring | No survey; monitoring |
| High Archaeological Potential | No survey; no monitoring | No survey; no monitoring | No survey; no monitoring | No survey; monitoring |

1143
1144

1145 Matrix 2. 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 monitoring | No survey; no monitoring | No survey; no monitoring | No survey; no monitoring |
| Moderate Archaeological Potential | No survey; no monitoring | No survey; no monitoring | Archaeological survey; no monitoring | Archaeological survey; no monitoring |
| High Archaeological Potential | No survey; no monitoring | No survey; no monitoring | Archaeological survey; no monitoring | Archaeological survey; no monitoring |

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00. Determining the Need for Archaeological and Cultural Studies

In determining the need for an archaeological and cultural study, NASA shall proceed as indicated below.

00. If an area has been previously surveyed archaeologically, based on the GIS data layer, monitoring is only warranted in moderate or high potential areas with negligible disturbance.

00. If an area has not been previously surveyed archaeologically, based on the GIS data layer, apply Matrix 2 to determine the level of archaeological work that may be required.

00. Irrespective of archaeological potential and disturbance, if an area has been determined to be culturally sensitive by Center Consulting Tribes, the NASA Center will consult with the Center Consulting Tribes to determine the best path forward.

00. When archaeological monitoring is conducted in lieu of an archaeological survey, an internal memo detailing the results of the ground disturbance will be drafted and included with the annual report per Stipulation 00 [Annual Reporting]. The memo will not be submitted to the SHPO and Center Consulting Tribes, unless an unexpected discovery is made, in which case the Center ICRMP SOP shall be followed.

1173 **00. Archaeological Monitoring**

1174
1175 Monitoring of areas based on the Matrices will be implemented in lieu of an archaeological
1176 survey. One archaeological monitor—the CRM—will be required and Tribal monitor(s) may
1177 be used as determined necessary in consultation with Center Consulting Tribes. If cultural
1178 resources potentially eligible for listing in the NRHP are recovered, the appropriate steps will
1179 be taken to investigate these resources.

1180
1181 00. Monitoring can be conducted by the trained NASA Center CRM. This
1182 person does not need to meet SOI standards for archaeology and will be the on-site
1183 monitor. The NASA SOI archaeologist must be consulted prior to and during all
1184 monitoring activities but does not need to be present for ground disturbing activities.

1185
1186 00. If cultural materials are found, the Center ICRMP SOP for unexpected
1187 discovery shall be followed.

1188
1189 **00. Archaeological Survey**

1190
1191 If an Archaeological Survey is conducted, then NASA shall do so consistent with SHPO and
1192 Tribal requirements. NASA shall submit an Archaeological Survey prepared pursuant to this
1193 stipulation and depending on the findings, to the SHPO and Center Consulting Tribes for
1194 review. Consultation on NASA’s findings of eligibility shall be consistent with 36 CFR Part 63 –
1195 *Determinations of Eligibility for Inclusion in the National Register of Historic Places*. SHPO and
1196 Center Consulting Tribes shall have 30 days to review the report and provide written
1197 comments to NASA. NASA shall contact the SHPO and Center Consulting Tribes via phone to
1198 confirm those Tribes intent and capacity to comment within 30 days from receipt of draft
1199 report.

1200
1201 If the SHPO and Center Consulting Tribes concur within 30 days, then NASA shall finalize the
1202 document and submit an electronic copy to the SHPO and Center Consulting Tribes. If the
1203 SHPO or any Center Consulting Tribe fails to respond within 30 days, then NASA may finalize
1204 the report and submit an electronic copy to the SHPO and Center Consulting Tribes.

1205
1206 If no sites are identified, or if sites are identified but are determined to be not eligible for listing
1207 in the NRHP, then the Project will move forward with no further consultation per this stipulation
1208 needed.

1209
1210 If sites are identified that are determined to be potentially eligible, then NASA shall do one of
1211 the following.

1212
1213 00. Consider modifying the Project to avoid affecting the site;

1214
1215 00. Conduct additional testing to make a definitive determination of eligibility; or

1216

1217 00. Assume eligibility for the site and plan for mitigation.

1218
1219 If there is a disagreement about eligibility evaluation, NASA will forward its findings, along
1220 with the SHPO's comments and Center Consulting Tribes' comments, to the Keeper for a
1221 decision. The Keeper shall then have 30 days to render its binding decision, which shall be
1222 communicated in writing via email to NASA, copying the SHPO and Center Consulting Tribes.

1223
1224 **00. Mitigation Plan**

1225
1226 If mitigation of an NRHP-eligible or potentially eligible archaeological site is necessary, then
1227 NASA, in consultation with the SHPO and Center Consulting Tribes, shall develop a written
1228 Mitigation Plan that outlines measures to resolve adverse effects to the site, and shall submit it
1229 electronically to the SHPO and Center Consulting Tribes. The Mitigation Plan may include
1230 alternative mitigations rather than data recovery measures that contribute towards the public's
1231 understanding of the historical significance of NASA owned or controlled archaeological
1232 resources. The Mitigation Plan shall include a scope of work with sufficient detail that it could
1233 be used as the basis for solicitation of bids.

1234
1235 SHPO and Center Consulting Tribes shall have 30 days to review the Mitigation Plan and
1236 provide written comments to NASA. NASA shall contact the SHPO and Center Consulting
1237 Tribes via phone to confirm their intent and capacity to comment within 30 days from receipt
1238 of the Mitigation Plan. NASA will consider requests from the SHPO and Center Consulting
1239 Tribes to extend the review period to 45 days. If the SHPO and Center Consulting Tribes
1240 concur within 30 days, then NASA shall move forward with the project. If the SHPO or any
1241 Center Consulting Tribe fails to respond within 30 days, then NASA may finalize the Mitigation
1242 Plan and submit an electronic copy to the SHPO and Center Consulting Tribes.

1243
1244 If the SHPO or Center Consulting Tribes do not concur, then NASA shall either:

1245
1246 00. Convene a meeting between the SHPO and Center Consulting Tribes to
1247 discuss the disagreement and work towards a consensus resolution; or

1248
1249 00. Forward its findings, along with the SHPO's comments and Center Consulting
1250 Tribes' comments, to the ACHP for a decision. The ACHP shall then have 30
1251 days to render its binding decision, which shall be communicated in writing via
1252 email to NASA, copying the SHPO and Center Consulting Tribes.

1253
1254 NASA shall notify the SHPO and the Center Consulting Tribes of the decision via email, and
1255 then proceed accordingly.

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1258 **00. GENERAL PROVISIONS**

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00. The definitions in 36 CFR Part 800 are applicable to the APA and are incorporated by reference herein. Definitions specific to the APA are listed in Appendix X – Definitions.

- Anything “written” and “in writing” refers to hardcopy or electronic communication. All communications, submissions, and reporting shall be in writing and delivered electronically via email or cloud-based file transfer, unless a specific request for a hardcopy is made to the issuing party in writing or it is required by SHPO standards.
- Unless otherwise indicated, “days” shall mean calendar days.

1270 **00. ANNUAL REPORTING**

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Each year following the execution of the APA until it expires or is terminated, NASA’s FPO shall provide APA Consulting Parties an Annual Report summarizing work undertaken pursuant to its terms. The Annual Report shall be organized by Participating Center, and shall include for each Participating Center, the following:

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- Digital Map completion status, and once completed, any new information added;
- The status of the G2G Survey;
- Projects reviewed under Stipulation 00 [Individual Project Review] and their outcome;
- Projects for which archaeological monitoring was conducted in lieu of survey;
- Unanticipated discoveries made and the outcome; and
- Category 1 and 2 Assets proposed for demolition or disposal in the coming year.

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The Annual Report will also include a general assessment of APA implementation, with any recommended improvements or amendments.

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An electronic copy of the Annual Report will be provided by the Center CRM to the Center Consulting Parties. Within 60 days of NASA’s submittal of the Annual Report to the Center Consulting Parties, if any APA Consulting Parties make a request, NASA shall convene a meeting with the APA Consulting Parties to review the implementation of the APA for the previous year and discuss any scheduling changes proposed, any problems encountered, and any disputes and objections received in NASA’s efforts to carry out the terms of the APA. If the APA Consulting Parties determine that an amendment is warranted, then they shall proceed consistent with Stipulation 00 [Amendments].

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00. DISPUTE RESOLUTION

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

1301 00. Forward all documentation relevant to the dispute, including NASA’s proposed
1302 resolution, to the ACHP. The ACHP shall provide NASA with its advice on the resolution of the
1303 objection within 30 days of receiving adequate documentation. Prior to reaching a final
1304 decision on the dispute, NASA shall prepare a written response that takes into account any
1305 timely advice or comments regarding the dispute from the ACHP, signatories and concurring
1306 parties, and provide them with a copy of this written response. NASA will then proceed
1307 according to its final decision.
1308

1309 00. If the ACHP does not provide its advice regarding the dispute within the 30-day time
1310 period, NASA may make a final decision on the dispute and proceed accordingly. Prior to
1311 reaching such a final decision, NASA shall prepare a written response that takes into account
1312 any timely comments regarding the dispute from the signatories and concurring parties to the
1313 APA, and provide them and the ACHP with a copy of such written response.
1314

1315 00. NASA’s responsibility to carry out all other actions subject to the terms of the APA that
1316 are not the subject of the dispute remain unchanged.
1317

1318 **00. UNANTICIPATED DISCOVERIES**
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1320 NASA shall make all reasonable efforts to avoid disturbing gravesites, including those containing
1321 Native American human remains and associate funerary artifacts. If previously unidentified
1322 archaeological historic properties or human remains are discovered during ground disturbing
1323 activities, NASA shall respond as directed in the Center ICRMP.
1324

1325 **00. DURATION**
1326

1327 This Agreement shall remain in full force and effect for 15 years after the date of the last signatory’s
1328 signature. During the 14th year of the APA’s duration, NASA shall convene the signatories to consult
1329 on an extension of this Agreement. Should the signatories agree to extend the duration of the APA for
1330 an additional period, they shall do so per Stipulation 00 [Amendments].
1331

1332 **00. ANTI-DEFICIENCY ACT**
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1334 NASA’s future efforts to execute requirements arising from the stipulations of the APA are subject to
1335 the provisions of the Anti-Deficiency Act. If compliance with the Anti-Deficiency Act alters or impairs
1336 NASA’s ability to implement the stipulations of the APA, NASA shall consult in accordance with the
1337 amendment and termination procedures found at Stipulation 00 [Amendments] and Stipulation 00
1338 [Termination] of this Agreement. No provision of the APA shall be interpreted to require obligation or
1339 payment of funds in violation of the Anti-Deficiency Act, Title 31 U.S.C. Part 1341.
1340
1341

1342 00. HANDLING OF CONTROLLED UNCLASSIFIED INFORMATION

1343
1344 In the performance of this Agreement, the non-NASA Parties may have access to, be furnished with, or
1345 use U.S. Government data, the use and dissemination of which, the Government intends to control.
1346 With respect to data specifically marked with a restrictive notice, including but not limited to
1347 "Controlled Unclassified Information (CUI)," the non-NASA Parties agree to:

- 1348
- 1349 00. Use, disclose, or reproduce the data only as necessary under the APA;
- 1350
- 1351 00. Safeguard the data from unauthorized use and disclosure;
- 1352
- 1353 00. Allow access to the data only to its employees and related entities (i.e., contractors,
1354 subcontractors, grantees, or other entities having a legal relationship with NASA, the SHPO,
1355 or ACHP that is assigned, tasked, or contracted to perform activities under this Agreement);
- 1356
- 1357 00. Except as provided elsewhere in this stipulation, preclude disclosure of the data
1358 outside the parties' organizations;
- 1359
- 1360 00. Notify its employees who may require access to the data about the obligations under
1361 this clause and ensure that such employees comply with such obligations, and notify its related
1362 entities that may require access to the data about their obligations under this clause; and
- 1363
- 1364 00. Return or dispose of the data, as NASA may direct, when the data is no longer needed
1365 for performance under this Agreement.
- 1366

1367 In the event that data exchanged between NASA and the parties include a legend that the non-NASA
1368 parties deem to be ambiguous or unauthorized, the non-NASA parties may inform NASA of such
1369 condition. Notwithstanding such a legend, as long as such legend provides an indication that a
1370 restriction on use or disclosure was intended, the party receiving such data shall treat such data
1371 pursuant to the requirements of this clause unless otherwise directed, in writing, by NASA.

1372
1373 Notwithstanding any restrictions on use, disclosure, or reproduction of data provided in this clause,
1374 the parties will not be restricted in the use, disclosure, and reproduction of any data that:

- 1375
- 1376 00. Is publicly available at the time of disclosure or becomes publicly available without
1377 breach of this Agreement;
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- 1379 00. Is known to, in the possession of, or developed by the receiving party independent of
1380 carrying out the receiving party's responsibilities under this Agreement and independent of any
1381 disclosure of, or without reference to, proprietary data or otherwise protectable data
1382 hereunder;
- 1383
- 1384 00. Is received from a third party having the right to disclose such information without
1385 restriction; or

1386 00. Is required to be produced by the receiving party pursuant to a court order or other
1387 legal requirement. If a non-NASA party believes that any of the events or conditions that
1388 remove restriction on the use, disclosure, and reproduction of the data apply the non-NASA
1389 party will promptly notify NASA of such belief prior to acting on such belief, and, in any event,
1390 will notify NASA prior to an unrestricted use, disclosure, or reproduction of such data.
1391

1392 To the extent authorized by federal law (including Section 304 of the NHPA; 36 CFR 800.11(c)(1); 54
1393 U.S.C. § 307103; Section 9 of the Archaeological Resources Protection Act; 16 U.S.C. § 470hh);
1394 and the Freedom of Information Act, 5 U.S.C. 552), NASA, the ACHP, and the NCSHPO shall
1395 withhold from public disclosure information about the nature or location of cultural resources,
1396 including archaeological resources, historic properties, and resources of religious and cultural
1397 significance to Indian tribes. NASA shall consult with the Secretary of the Interior pursuant to the
1398 ACHP's regulations (at 36 CFR § 800.11(c)(1)) as necessary to withhold information covered by
1399 Section 304 of the NHPA.

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1401 **00. AMENDMENTS**
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1403 The APA may be amended when such an amendment is agreed to in writing by all signatories, utilizing
1404 the amendment template (Appendix X – Amendment Template). The amendment will be effective on
1405 the date a copy signed by all of the signatories is filed with the ACHP.

1406
1407 **00. TERMINATION**
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1409 If any signatory to the APA determines that the terms will not or cannot be carried out, that party shall
1410 immediately consult with the other signatories to attempt to develop an amendment per Stipulation 00
1411 [Amendments]. If within 90 calendar days (or another time period agreed to by all signatories) an
1412 amendment cannot be reached, any signatory may terminate the APA upon written notification to the
1413 other signatories. If the APA is terminated, NASA shall comply with the provisions of 36 CFR Part 800,
1414 Subpart B, for all Projects that have not already begun and their effects resolved.

1415
1416 Execution of the APA by NASA, the ACHP, and the NCSHPO, and implementation of its terms
1417 evidence that NASA has taken into account the effects of the undertakings to which the APA applies
1418 on historic properties and afforded the ACHP an opportunity to comment.
1419

- 1420 **APPENDIX X** Definitions
- 1421 **APPENDIX X** Indian Tribes Invited to Consul
- 1422 **APPENDIX X** Additional Consulting Parties
- 1423 **APPENDIX X** NASA Centers
- 1424 **APPENDIX X** NASA Programmatic Agreements (APA Applicability)
- 1425 **APPENDIX X** Heritage Zones
- 1426 **APPENDIX X** NASA Facility Classification Coding System (FCCS)
- 1427 **APPENDIX X** Categorization of Assets

- 1428 APPENDIX X Activities Excluded from Review
- 1429 APPENDIX X NASA Project Types
- 1430 APPENDIX X NPS Digital Photo Policy
- 1431 APPENDIX X Amendment Template
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1447 **SIGNATORIES:**

1448

1449 NASA

1450 Date

1451 [insert agency official name and title]

1452

1453 ACHP

1454 Date

1455 [insert name and title]

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1457 NCSHPO

1458 Date

1459 [insert name and title]

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APPENDIX X – Definitions

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- "APA Consulting Parties" are the consulting parties to the APA including the ACHP, NCSHPO, the NTHP, NATHPO, and the 80 federally recognized Tribes. Additional APA Consulting Parties may be designated via an amendment to this agreement. The APA Consulting Parties shall consult with respect to the major provisions of the APA.
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1471
- "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 leasehold improvements (Facility Class 10) (Appendix X – FCCS).
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- "Asset Lists" are comprehensive lists of NASA Assets that indicates the following: Asset number, name, date of construction, and FCCS Class Code; if applicable, their individual NRHP evaluation status, applicable Criteria, date of most recent evaluation, and date of concurrence, or their reasons for exclusion from evaluation; which assets have been preliminarily identified under NRHP Criteria C and CCG; whether or not the Assets are located within a Heritage Zone; and their assigned Management Category.
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- "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.
- 1481
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- "Center Consulting Parties" are consulting parties with a demonstrated interest in historic properties at a Center, with which NASA shall consult under the 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.
- 1485
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1487
- "Center Consulting Tribes" are the Tribes from within the larger group of Center Consulting Parties. These Tribes have a demonstrated interest in historic and cultural properties at the Center, especially as it comes to ground disturbance.
- 1488
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- "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.
- 1491
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1493
- "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.
- 1494
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- "G2G Surveys" are comprehensive gate-to-gate survey of Assets at a NASA center by a SOI-qualified architectural historian provided the assets have not been evaluated for individual eligibility within the last twenty years with documented SHPO concurrence, and they have not turned 50 years of age since their evaluation; they are not in FCCS Facility Classes 5, 7, 8, or 9; and they are not less than 40 years of age.

- 1499 • “Heritage Zones” are areas within Centers that possess unique and distinguishable historical
1500 design aesthetic reflective of NASA history and culture that merit special consideration. NASA’s
1501 defined Heritage Zones for the purposes of the APA are shown in Appendix X – Heritage Zones.
- 1502 • “HTSF” means highly technical or scientific facility as described in 1991 ACHP publication
1503 *Balancing Historic Preservation Needs with the Operations of Highly Technical or Scientific*
1504 *Facilities*.
- 1505 • “HTSF District” is a term used in the APA to describe the nature of NASA Centers as active
1506 research institutions that have developed around HTSF and in which the design, construction, and
1507 physical appearance are determined largely by functional needs, and require frequent
1508 modification to stay scientifically relevant.
- 1509 • “Management Categories” are a strategy used in the APA for management which categorizes
1510 NASA assets into three different buckets based on their historical significance, association with
1511 NASA’s core missions, and physical integrity.
- 1512 • “NASA” shall be understood to mean the agency currently known as NASA as well as its
1513 predecessor agency, the National Advisory Committee for Aeronautics (NACA).
- 1514 • “Participating Centers” shall mean NASA Centers to whom the APA applies—namely those that do
1515 not have a Center-wide programmatic agreement.
- 1516 • “Project” shall mean “undertaking” as defined in 36 CFR Part 800.
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1522 [Reserved]

APPENDIX X – Indian Tribes Invited to Consult

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1525 [Reserved]

APPENDIX X – Additional Consulting Parties

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1528 [Reserved]

APPENDIX X – NASA Centers

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1531 [Reserved]

APPENDIX X – NASA Programmatic Agreements

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APPENDIX X – Heritage Zones

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1578 [Reserved]

APPENDIX X – NASA Facility Classification Coding System (FCCS)

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APPENDIX X – Categorization of Assets

00. CATEGORIZATION OF ASSETS

00. Assets Evaluated When 50 Years of Age or Older

Assets that NASA has evaluated for NRHP eligibility and received SHPO concurrence shall be assigned a Management Category based upon those evaluations as indicated below. Management Categories shall not deviate from the below except in the case of those Assets put forward by NASA as having lost integrity per Stipulation 00 [Loss of Integrity].

00. NRHP Listed or Eligible, Individually – Categories 1 and 2

Assets that are listed in, or eligible for listing in, the NRHP as individual resources will be considered Category 1 Assets if they possess historical significance on a national level and are directly associated with NASA’s core missions.

Assets that are listed in, or eligible for listing in, the NRHP as individual resources that possess state or local significance, or are not directly associated with NASA’s core missions, will be considered Category 2 Assets.

00. Category 3

Assets that are not individually eligible for listing in the NRHP will be assigned to Category 3.

00. Loss of Integrity

If NASA can demonstrate that an NRHP-listed or NRHP-eligible Asset has lost integrity such that it can no longer convey its historical significance, the Asset will be assigned Category 3. NASA shall provide documentation to support the recategorization of the Asset.

If there is no documented SHPO concurrence for a NASA evaluation, the Asset shall be treated as unevaluated and Stipulation 00 [Categorization of Unevaluated Assets] shall apply.

00. Categorization of Assets Evaluated Prior to Reaching 50 Years of Age

In cases where an Asset was evaluated for NRHP eligibility prior to reaching 50 years of age, and thus evaluated under CCG, the following shall apply.

00. NRHP Listed or Eligible, Individually – Category 1

1622 Assets that are listed in, or eligible for listing in, the NRHP as individual resources and
1623 meet CCG will be considered Category 1 Assets.

1624
1625 00. Ineligible Assets That Have Reached 50 Years of Age

1626
1627 With respect to evaluated Assets where all of the following conditions apply: (1) the
1628 Asset was less than 50 years of age at the time it was evaluated for NRHP eligibility;
1629 (2) the Asset was at that time found ineligible under CCG; and (3) the Asset has since
1630 reached 50 years of age; the Asset shall be treated as unevaluated and Stipulation 00
1631 [Categorization of Unevaluated Assets] shall apply.

1632
1633 Assets evaluated prior to reaching 50 years of age shall otherwise be categorized consistent
1634 with Stipulation 00 [Assets Evaluated When 50 Years of Age or Older].

1635
1636 00. **Categorization of Unevaluated Assets**

1637
1638 00. Assets Less Than 50 Years of Age

1639
1640 NASA shall apply the Resource Significance Framework (RSF) Model (Appendix X –
1641 RSF Model) to determine the Management Category.

1642
1643 00. Assets 50 Years of Age or Older

1644
1645 If the Asset is in Facility Classes 5 (Hospital and Medical), 7 (Housing and
1646 Community), 8 (Utility and Ground Improvements), or 9 (Land), it shall be assigned to
1647 Category 3.

1648
1649 For Assets in all other Facility Classes, NASA shall evaluate the resource per NRHP
1650 requirements and categorize the resource accordingly.

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APPENDIX X – Activities Excluded from Review

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The following NASA activities have limited potential to affect historic properties and therefore do not require review under this PA. NASA may undertake these activities without consultation, mitigation, or reporting under this PA, as these are considered routine maintenance and repair. No ground disturbing activity shall be involved in routine maintenance and repair.

With respect to Assets in Categories 1 and 2, routine maintenance and repair shall leave extant material(s) in place where possible. If extant material(s) must be replaced, then it shall be replaced in-kind, i.e., with the same or similar material applied in a manner that is visually consistent with what is being replaced (so that it is matching in color, texture, profile, size, and configuration, as much as possible). If replacement in-kind is not possible, then the activity shall be deemed a modification and managed according to the applicable stipulations in this PA. Routine maintenance and repair will strive to avoid disturbance of historic fabric whenever possible.

1. Exterior Building Maintenance and Repair

Building Maintenance and Repair:

- General maintenance and repair of buildings and structures, which includes, but is not limited to, painting; siding; roofing; door, ceiling, wall, window, floor covering repair/replacement.
- Elevator repair; filter and light replacement.
- Repairs to existing equipment.
- Repair or in-kind replacement of existing signs or awnings.

Lighting:

- Changes to interior and exterior lighting systems including replacement of or modification to lighting systems in all buildings and facilities so long as they are not character-defining.
- Repair or in-kind replacement of existing significant, character-defining, or contributing exterior light fixtures.

Foundation repair:

- Below-grade repair of brick of all types of foundations so long as work is confined to previously disturbed areas and does not impact or otherwise later previously identified archaeological sites.

Windows and doors:

- Repair of windows and doors, including caulking and weather stripping of existing window or door frames, and installation of new glass in existing sashes or

- 1697 doors, including retrofitting for double and triple glazing, and replacement of glazing
1698 putty.
1699 • Installation of exterior storm windows and doors on historic buildings or
1700 structures, provided they conform to the shape and size of the historic windows and
1701 doors, and that the meeting rails of storm windows coincide with that of existing sash,
1702 and that their installation will not permanently damage historic elements.
1703 • Installation of door or window locks or electronic security apparatus.
1704

1705 Walls and Siding:

- 1706
1707 • Repair of wall or siding material or in-kind replacement of deteriorated siding or trim.
1708

1709 Painting/lead paint abatement:

- 1710
1711 • Removal of exterior or interior paint by non-destructive means, limited to hand
1712 scraping, low pressure water wash (less than 200 p.s.i.), or paint-removal chemicals,
1713 provided that the removal method is consistent with the provisions of 24 C.F.R. Part
1714 35, "Lead-Based Poisoning Prevention in Certain Residential Structures," including
1715 Part 35.140, "Prohibited methods of paint removal."
1716 • All lead paint abatement done in accordance with Preservation Brief #37:
1717 Appropriate Methods for Reducing Lead Paint Hazards in Historic Housing.
1718 • Application of exterior paint to previously painted surfaces.

1719 Roofing:

- 1720
1721 • Repair or in-kind replacement of roof cladding and sheeting, flashing, gutters,
1722 soffits, and downspouts with no change in roof pitch or configuration.
1723 • Repair or re-framing of structural roof elements as required to improve the
1724 drainage and durability of the roof as long as the appearance of the roof lines visible
1725 from the front elevation and from other prominent, visible points (for example, the
1726 exposed side façade on a corner lot) is not affected.
1727 • New installation of gutters and down spouts, as long as this does not damage
1728 historic materials or require removal of historic features.
1729

1730 Disabled Access:

- 1731
1732 • Repair or in-kind replacement of existing wheelchair ramps, unless the ramps
1733 are to be substantially modified.
1734 • Installation of new wheelchair ramps, when the following considerations apply:
1735 1) The ramp will not be a permanent addition to the property; 2) No historic fabric will
1736 be permanently damaged in the installation or use of the ramp; 3) Efforts will be made
1737 to construct and finish the ramp in a manner that will result in a minimal amount of
1738 visual and physical impact on the property, through design considerations, use of
1739 materials, and painting wooden ramps whenever possible.

1740 • Substantial modification of an existing wheelchair ramp, provided it is not a
1741 character-defining feature of a historic building and the following considerations
1742 apply: 1) The ramp will not be a permanent addition to the property; 2) No historic
1743 fabric will be permanently damaged in the installation or use of the ramp; 3) Efforts
1744 will be made to modify and finish the ramp in a manner that will result in a minimal
1745 amount of visual and physical impact on the property, through design considerations,
1746 use of materials, and painting wooden ramps whenever possible.
1747

1748 Repointing:

1749
1750 • Repair or repointing of masonry features on historic buildings or structures with
1751 the design, size, shape, materials, and repointing to match the original in color,
1752 texture, and tooling, and, for historic properties, following the recommended
1753 approaches in Preservation Brief No. 2 Repointing Mortar Joints in Historic Brick
1754 Buildings.
1755

1756 **2. Interior Building Maintenance and Rehabilitation**

1757
1758 Green Building Technologies:

1759
1760 • Incorporation of green building technologies to existing historic buildings or
1761 structures seeking certification under the U.S. Green Building Council's Leadership in
1762 Energy and Environmental Design standards for environmentally sustainable
1763 construction provided such construction does not alter or detract from the qualities
1764 that contribute to the significance of the historic property(ies).
1765 • Energy conservation measures including modifications to the heating,
1766 ventilation, and air condition (HVAC) control systems and conversions to alternative
1767 fuels (provided that these elements do not detract from the qualities that make the
1768 historic property listed or determined eligible).
1769

1770 Mechanical Systems:

1771
1772 • Installation, replacement or repair of plumbing, HVAC systems and units,
1773 electrical wiring and fire protection systems, provided no structural alterations or
1774 damage to historic material are involved.
1775 • Restroom improvements for disabled access provided the work is contained
1776 within the existing restroom walls.
1777

1778 Electrical:

1779
1780 • Maintenance, repair, removal, modification, upgrading, or replacement of
1781 plant and building electrical systems (e.g., building conduit, wiring and lighting,
1782 emergency lighting, etc.).

- 1783 • Upgrading or additional new electrical lines between or among buildings and
1784 facilities.

1785
1786 Fire Detection and Suppression:

- 1787
1788 • Changes to fire detection and suppression systems including routine upgrades
1789 and modifications to fire alarm systems, smoke detectors, and sprinkler systems.

1790
1791 Health and Safety:

- 1792
1793 • General clean-up, encapsulation, and removal and disposal of asbestos-
1794 containing materials from buildings and structures provided it does not involve
1795 removal or alteration of significant historic elements (for lead paint abatement, see
1796 above).

1797
1798 Page Break
1799 Interior Spaces:

- 1800
1801 • Replacement of kitchen or bathroom facilities and fixtures – provided the work
1802 is contained within the existing bathroom or kitchen and significant historic fabric will
1803 not be damaged, altered, or removed.
1804 • If covering historic features, such as wood floors, then carpet or sheet goods
1805 (linoleum or vinyl) shall be installed in a reversible manner, either through tacking or
1806 with an underlayment so historic floors shall not be irreversibly damaged.

1807
1808 Basement:

- 1809
1810 • Installation or repair of concrete basement floor in an existing basement
1811 provided no historic materials are damaged.

1812
1813 **3. Land and Site Management**

1814
1815 Hurricanes:

- 1816
1817 • Modifications necessary to comply with hurricane codes provided the changes do not
1818 alter or detract from the qualities that contribute to the significance of the historic
1819 property(ies).

1820
1821 Landscaping:

- 1822
1823 • Mowing, trimming, and pruning of grass, shrubs, or trees.
1824 • Routine vegetation control activities.
1825 • Maintenance and repair of existing landscape features, including planting, walkways,
1826 and statuary.

- 1827 • Removal of dead, diseased, or hazardous vegetation.
- 1828 • Treatment of weed infestations that does not violate the chemical label, does not
- 1829 involve ground disturbance, where no features (such as pictographs or petroglyphs) that
- 1830 might be damaged are present, and does not occur within landscaped areas where native
- 1831 plant communities might be harvested.
- 1832 • Repairs to, or in-kind replacement of walks and steps, provided it does not involve the
- 1833 removal of historic or character-defining materials.
- 1834

1835 Erosion Control:

- 1836
- 1837 • General erosion control activities such as gravel or riprap placement on slopes, where
- 1838 minimal grading or preparation is required and no archaeological sites are present.
- 1839 • Planting or seeding ground cover and cleanout of existing drainage ditches.
- 1840

1841 Signage:

- 1842
- 1843 • Replacement of signs, including interpretive signs or exhibit structures, as long as they
- 1844 do not visually intrude on historic property(ies).
- 1845 • Installation, repair, or replacement of signs and markers where no ground disturbance
- 1846 will occur, or where installation is confined to disturbed areas or fill, and without
- 1847 movement, removal, or alteration of rock.
- 1848

1849 Fencing:

- 1850
- 1851 • Maintenance and in-kind repair of existing fencing and installation of a new chain link
- 1852 or post and rail fencing.
- 1853 • Installation of new fencing provided no identified archaeological sites are present.
- 1854

1855 Roads, Parking, Driveways, Alleys:

- 1856
- 1857 • Routine road maintenance, repair, and resurfacing where work is confined to
- 1858 previously maintained surfaces, ditches, culverts, and cut and fill slopes where there are
- 1859 no known historic properties or historic properties would not be affected because
- 1860 proposed work is clearly within disturbed context.
- 1861 • Placing marl, gravel, or shell on dirt roads or lots where no new ground disturbance
- 1862 will occur.
- 1863 • Repair of existing concrete or asphalt surfaces for curbs, gutters, and retaining walls.
- 1864 • Maintenance, repair, and in-kind replacement of non-character-defining street lights,
- 1865 traffic signals, and traffic signs.
- 1866

1867 Pest Removal:

- 1868
- 1869 • Removal of pests, including insects and rodents, and the removal of animal or bird
- 1870 debris.

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Wildlife Habitat Conservation:

- Maintenance and repair of existing property, wetlands, and stream channels. Installation of nesting platforms and boxes. Installation of animal-secure fencing or barriers when consistent with fencing provision above.

Water Systems:

- Changes to water systems including citing, installation, maintenance, repair, removal, and operation of plant water systems including, but not limited to, water wells, cooling water systems, potable water systems, storm sewers, waste water treatment systems, plant drainage, and plumbing.

4. General

Antiterrorism and Force Protection Measures:

- Antiterrorism and force protection measures designed and constructed to prevent or mitigate hostile actions, including cyber threats, as well as to increase capacity and protection for access control, provided such construction does not alter or detract from the qualities that contribute to the significance of the historic property and/or structure.

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1898 [Reserved]

APPENDIX X – NASA Project Types

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1901 [Reserved]

APPENDIX X – NPS Digital Photo Policy

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APPENDIX X – Amendment Template

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