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115 **PROGRAMMATIC AGREEMENT**
116 **AMONG**
117 **THE NATIONAL AERONAUTICS AND SPACE ADMINISTRATION,**
118 **THE ADVISORY COUNCIL ON HISTORIC PRESERVATION,**
119 **AND THE**
120 **NATIONAL CONFERENCE OF STATE HISTORIC PRESERVATION OFFICERS,**
121 **REGARDING**
122 **THE MANAGEMENT OF NASA ASSETS NATIONWIDE**
123
124

125 **PREAMBLE**
126

127 National Aeronautics and Space Administration (NASA) Centers are active research institutions
128 that have developed around Highly Technical or Scientific Facilities (HTSF) and as such the
129 design, construction, and physical appearance of NASA Centers are determined largely by
130 functional needs. The challenges facing agencies like NASA were acknowledged in the 1991
131 Advisory Council on Historic Preservation (ACHP) publication *Balancing Historic Preservation*
132 *Needs with the Operations of Highly Technical or Scientific Facilities*, prepared in response to a
133 Congressional request seeking counsel on “how a balance could be struck between the
134 preservation of physical reminders of the scientific legacy of the United States and the ongoing
135 operation and upgrading of scientific and technical research facilities.” The ACHP publication
136 aimed to demonstrate how historic HTSF could be managed consistent with the National
137 Historic Preservation Act (NHPA), in particular Section 106, if the respective parties—
138 preservation regulators and agency resource managers—understood and accounted for one
139 another’s goals. A major theme in this publication was the acknowledgement that modification is
140 expected and necessary to maintain active use of HTSF. As an agency dedicated to the fields of
141 aeronautics research, human exploration and operations, science, and space technology, NASA
142 must utilize its built assets in a manner that is often at odds with traditional historic preservation
143 approaches. NASA routinely modifies, upgrades, reconfigures, cannibalizes, and replaces its
144 resources. In the case of HTSF, modification that enables continued use is a Character-Defining
145 Feature (CDF), and it is the active use of the asset that ensures its preservation.
146

147 The purpose of this Nationwide Programmatic Agreement (NPA) is to create a process by which
148 NASA can meet its responsibilities to manage its U.S. real property assets under Sections 106
149 and 110 of the NHPA in a manner that accommodates NASA’s mission and addresses the
150 unique challenges of historic HTSF. The need for a tailored process became more acute in
151 2015, when the Office of Management and Budget released the *National Strategy for the*
152 *Efficient Use of Real Property* and the companion policy *Reduce the Footprint*, which requires
153 federal agencies to aggressively dispose of surplus properties, make more efficient use of the
154 Government’s real property assets, and reduce the total square footage of their domestic office
155 and warehouse inventory relative to an established baseline.
156

157 The NPA has been developed as a management approach that fosters more meaningful
158 integration of historic properties into NASA’s already robust project planning and cultural
159 resources management infrastructure. It strengthens the Center master planning process,
160 reinforces the value of cultural resources survey and evaluation, and enhances public access to
161 and understanding of NASA’s history as conveyed through the built environment. While focused
162 on HTSF, the NPA addresses the full range of built and archaeological resources under NASA’s
163 stewardship.

RECITALS

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

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

WHEREAS, the unique and specialized purpose of NASA Centers, and their HTSF character and uses, require 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 U.S.C. §§ 300101 et seq.); and

WHEREAS, NASA recognizes the potential for its built resources to be exceptionally important under Criteria Consideration G (CCG) of the National Register of Historic Places (NRHP) and, in consultation with the ACHP, the National Conference of Historic Preservation Officers (NCSHPO), and other consulting parties, finalized a probability model on September 30, 2022 to identify such resources (Resource Significance Framework [RSF] Model); and

WHEREAS, the RSF Model is built upon NASA's real property Facility Classification Coding System (FCCS), developed in 2010, which serves as the agency framework for identifying, categorizing, and analyzing the agency's real property inventory by categorizing all real property Assets based upon their function, and the results are maintained in the agency Real Property Management System (RPMS); and

WHEREAS, the findings of the RSF support NASA's use of FCCS to prioritize Assets for NRHP evaluation; and

WHEREAS, NASA recognizes that there are discrete areas at some, but not all, NASA Centers that possess a shared design, architectural style, or cohesive theme distinct from the predominant HTSF utilitarian character (Heritage Zones) (Appendix M – Heritage Zones), and that measures should be taken to preserve these areas; and

WHEREAS, NASA has identified [TBD] Heritage Zones at Participating Centers (Appendix H – Participating Centers) in consultation with the ACHP, NCSHPO, and other consulting parties; and

WHEREAS, to meet agency needs and federal real property directives, NASA is applying a 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 these property management activities constitute undertakings requiring review pursuant to 36 CFR Part 800, the regulations implementing Section 106; and

213 **WHEREAS**, NASA integrates the consideration of historic properties into its facilities planning at
214 both the agency and the Center level so that opportunities to avoid and minimize adverse
215 effects may be considered in advance of such activities, such as modification and reuse by
216 NASA, lease to an outside entity, and transfer to another federal agency, and placing the Asset
217 on standby or mothball status; and

218
219 **WHEREAS**, the decision to sustain, invest, outgrant, or divest Assets is substantially
220 determined years in advance of the action being carried out through decisions made during the
221 Center master planning process, and NASA has developed this NPA in order to consider
222 feasible alternatives to adverse effects at these early planning stages during the development of
223 the Center Master Plan (CMP); and

224
225 **WHEREAS**, NASA has developed the NPA to streamline the Section 106 process so that its
226 limited resources may be used to maximum public benefit while meeting its responsibilities
227 under the NHPA; and

228
229 **WHEREAS**, the NPA will apply to multiple individual but similar undertakings occurring at NASA
230 Centers across multiple states, such that the use of a programmatic agreement is appropriate to
231 complete the Section 106 process (36 CFR § 800.14(b)(1)(i)); and

232
233 **WHEREAS**, the NPA does not invalidate NASA’s other programmatic agreements or any other
234 of its Section 106 agreements, including project-specific memoranda of agreement (MOAs); and

235
236 **WHEREAS**, NASA consulted with the ACHP, the NCSHPO, and State Historic Preservation
237 Officers (SHPOs) pursuant to 36 CFR Part 800 in the development of this NPA; and

238
239 **WHEREAS**, NASA invited federally recognized Indian Tribes (Tribes) (Appendix F – Indian
240 Tribes Invited to Consult on the NPA) and Tribal Historic Preservation Officers (THPOs) with a
241 demonstrated interest in NASA undertakings at its Centers nationwide to consult on the
242 development of this NPA pursuant to 36 CFR Part 800; and

243
244 **WHEREAS**, NASA invited the National Trust for Historic Preservation (NTHP) and the National
245 Association of Tribal Historic Preservation Officers (NATHPO) to consult (Appendix G – NPA
246 Consulting Parties) on the development of this NPA pursuant to 36 CFR Part 800; and

247
248 **WHEREAS**, NASA provided opportunities for public review and comment through formal public
249 notice in the Federal Register [TBD], and through the NASA Environmental Management
250 Division (EMD) Cultural Resources Management web page.

251
252 **NOW, THEREFORE**, NASA, ACHP, and NCSHPO agree that all NASA undertakings to which
253 the NPA applies shall be implemented in accordance with the following stipulations in order to
254 take into account the effect of the undertakings on historic properties.

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STIPULATIONS

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

I. APPLICABILITY

A. Participating Centers

Centers to which the NPA applies shall be referred to as Participating Centers (Appendix H – Participating Centers). Participating Centers shall use this NPA to satisfy Section 106 requirements for Projects. Procedures for Centers opting in to the NPA after its execution are provided in Stipulation XIX (Adoptability).

B. Exclusion of National Historic Landmarks (NHLs)

The NPA shall not apply to NHLs governed by the 1989 *Programmatic Agreement among the National Aeronautics and Space Administration, the National Conference of State Historic Preservation Officers, and the Advisory Council on Historic Preservation* (NHL PA) (Appendix E – NHL PA), so long as that agreement remains in effect. Projects confined entirely to individual NHLs, and occurring entirely within the boundaries of an NHL, shall be managed under the NHL PA and NASA shall have no requirements with respect to those Projects under the NPA. Procedures for when an NHL falls within the Area of Potential Effects (APE) of a Project reviewed under this NPA are provided in Stipulation X.A (Notification Letter).

II. ROLES AND RESPONSIBILITIES

A. NASA

1. NASA Headquarters (HQ)

a. Agency Official

The Agency Official fulfills the roles specified in 36 CFR § 800.2(a). They are the final decisionmaker for the agency with respect to Section 106. The Agency Official may be called to represent NASA in NPA implementation in cases of government-to-government consultation with federally recognized Tribes. The Agency Official shall be NASA's decisionmaker on amendments or disputes arising from the NPA. The Agency Official may delegate their responsibilities under the NPA to a Center Director or to the Federal Preservation Officer (FPO).

b. Federal Preservation Officer

NASA's Cultural Resource Management Program is directed by the agency's FPO. The FPO provides guidance to the Cultural Resource Managers (CRMs) at each Center. The FPO is responsible for the development and implementation of the NPA for the agency, including the

307 development of NPA programmatic mitigation, and NPA monitoring and
308 reporting. The FPO shall serve as the liaison between NASA, the ACHP,
309 and the NCSHPO for the purposes of NPA implementation. The FPO may
310 also be called to resolve disputes at the Center level.

311
312 c. Project Personnel

313
314 Project personnel at the HQ level are loosely defined as personnel who
315 oversee projects defined as undertakings, including master planning,
316 Construction of Facilities (CoF), and Operations and Maintenance (O&M)
317 program managers.

318
319 2. NASA Centers

320
321 a. Center Directors

322
323 In cases where the Agency Official has delegated such authority, Center
324 Directors will fulfill roles specified in 36 CFR § 800.2(a).

325
326 b. Center Cultural Resource Managers

327
328 The Center CRM is responsible for implementing NASA Cultural
329 Resource Management Program activities at the Centers, and for
330 reviewing NASA Projects under the NPA and for carrying out the terms of
331 the NPA at the Center level. The Center CRM will participate in Center
332 master planning efforts, coordinate with Center CoF program managers
333 and facilities project managers on the requirements of the NPA, and
334 complete the NASA Center Annual Report. The CRM is the primary point-
335 of-contact between NASA and Center Consulting Parties, including the
336 relevant SHPO and Tribes. The Center CRM shall take the lead in
337 ensuring that Gate-to-Gate (G2G) Surveys are carried out consistent with
338 the terms of the NPA. The Center CRM is also responsible for ensuring
339 that NRHP evaluations are carried out by personnel meeting the SOI
340 Professional Qualification Standards, and for entering, updating, and
341 maintaining accurate data, including Asset NRHP evaluation status in
342 relevant databases.

343
344 c. Project Personnel

345
346 Project personnel at the Center level are defined as personnel
347 responsible for planning and executing projects defined as undertakings,
348 including Center master planners, CoF program/project managers
349 (FPMs), and CoF maintenance managers.

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B. Consulting Parties

1. NPA Consulting Parties

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

2. Center Consulting Parties

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

3. Center Consulting Tribes

Center Consulting Tribes have a demonstrated religious or cultural interest in historic and cultural properties at a Participating Center, especially as it relates to ground disturbance. Center Consulting Tribes, as keepers of traditional knowledge, shall be consulted regarding the identification, evaluation, and treatment of historic properties during NPA implementation. Federally recognized Center Consulting Tribes may, at any time during NPA implementation, request government-to-government consultation with NASA.

C. Advisory Council on Historic Preservation

At any time, any of the parties described in Stipulations II.A and II.B may request ACHP involvement or comment on the implementation of the NPA in general or on Projects governed by the procedures set forth in the NPA. Such a request for ACHP involvement shall be in writing, copying all Signatories, the relevant SHPO, and Center Consulting Parties. The ACHP may elect to participate in Project consultation at the request of a Signatory or NASA.

394 **III. PROJECT TYPES**

395

396 NASA's Participating Centers shall apply the NPA based upon one or more of the Project types
397 described below.

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A. Repair and Maintenance

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Repair and Maintenance activities are those carried out on a routine or regular basis to sustain an Asset for its continued use. NASA defines "repair" as facility work required to restore a facility or component to a condition substantially equivalent to its originally intended and designed capacity, efficiency, or capability. It includes the substantially equivalent replacements of utility systems and collateral equipment necessitated by incipient or actual breakdown. It includes restoration of function, usually after failure. "Maintenance" is defined as the recurring day-to-day work required to preserve facilities (buildings, structures, grounds, utility systems, and collateral equipment) in such condition that they may be used for their designated purpose over an intended service life. Maintenance minimizes or corrects wear and tear and, thereby, forestalls major repairs. Facilities maintenance includes preventive maintenance, predictive testing and inspection, grounds care, programmed maintenance, repair, trouble calls, replacement of obsolete items, and service requests. Facilities maintenance does not include new work, work on noncollateral equipment, or maintenance performed in the Central Plant by plant operations personnel.

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

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B. Interior Modification

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

440 **C. Exterior Modification Within Asset Envelope**

441
442 Exterior Modification within Asset Envelope includes changes to the exterior of an Asset
443 that do not extend beyond the existing Asset Envelope, do not result in additional square
444 footage horizontally or vertically, and do not require ground disturbance beyond the
445 existing footprint. Exterior Modification within Asset Envelope includes, but is not limited
446 to: removal and replacement of exterior materials (e.g., roof sheathing); changes in
447 fenestration (e.g., creating a new window opening or door); removal, replacement, or
448 addition of exterior features (e.g., window replacement, addition of solar shades,
449 removal of entrance canopy, addition of a vent); application of new materials to exterior
450 walls (e.g., synthetic stucco); and replacement of utility lines within an existing utility
451 corridor.

452
453 **D. New Construction**

454
455 New Construction includes changes to the exterior of an Asset outside of the existing
456 envelope and utility corridors, resulting in additional square footage horizontally or
457 vertically, an increase in interior space, or greater overall mass and/or size (i.e.,
458 additions). It also includes construction of entirely new built Assets. New Construction
459 includes but is not limited to: raising a roof, adding rooms or stories, and enclosing
460 exterior spaces to increase usable space; constructing a building in a former parking lot
461 adjacent to an existing Asset; constructing new sources of power such as a solar farm or
462 substation; new construction on a previously undeveloped and/or undisturbed site; and
463 construction of a new utility line. This Project type usually involves ground disturbance.

464
465 **E. Other Ground Disturbing Activities**

466
467 Other Ground Disturbing Activities are those that are not associated with new
468 construction. This may include but is not limited to environmental site investigations;
469 environmental testing, monitoring, and remediation; ground water well installation; soil
470 relocation; and vegetation removal such as that required to create lines-of-sight.

471
472 **F. Mothballing**

473
474 Mothballing may be undertaken on Assets that are temporarily not in use and have an
475 anticipated reactivation period of more than 36 months. Aimed at preventing significant
476 deterioration, Mothballing includes such activities as: preparation of utility systems and
477 collateral equipment for long-term inactivation; equipment of the interior with appropriate
478 environmental controls; removal of hazardous materials; maintenance of the integrity
479 and appearance of the exterior shell; and assessment of personal property contained
480 therein to determine if it should remain with the facility, be reutilized, or be disposed.
481 Mothballing provides the least level of maintenance required to maintain functionality for
482 possible future use.

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485 **G. Demolition**

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487 Demolition is defined as eliminating or reducing underutilized and obsolete real property
488 assets or equipment no longer required for agency missions. Demolition may apply to
489 part of an Asset or the total Asset. This Project type may include ground disturbance.

490
491 **H. Outgrant**

492
493 Outgrant is the non-permanent transfer of real property rights from NASA to others by
494 means of lease (or any other form of acceptable legal instrument that recognizes NASA
495 as the landlord and another entity as the tenant); permit; easement; right-of-way; license;
496 Space Act Agreement (SAA); or agreement such as memorandum of understanding
497 (MOU), MOA, or concessionaire agreement. The most common Outgrant for NASA
498 Assets is a lease, which may or may not include restrictions relating to the Asset's
499 historic status. Outgrant may result in but is not limited to shared use of a facility; sole
500 use of a facility; granting of new utility easements; or construction of buildings on vacant
501 land.

502
503 **I. Transfer**

504
505 Transfer is the permanent transfer of real property rights from NASA to others. Transfer
506 may result in but is not limited to: facility transfer to another federal entity with Section
507 106 responsibilities; or the divestment of real property to a non-federal entity where
508 NASA no longer has control over the Asset.

509
510 **IV. PLANNING-LEVEL SURVEYS AND PROPERTY MANAGEMENT TOOLS**

511
512 To facilitate early planning and efficient execution of the Project review process as stipulated in
513 this NPA, NASA Participating Centers shall implement the following planning-level surveys and
514 property management tools to front-load identification efforts. These tools include formal survey,
515 NRHP evaluation, and predictive modeling.

516
517 **A. Built Environment**

518
519 The NPA establishes two management concepts for Assets at Participating Centers:
520 Management Categories, which are assigned to individual Assets based upon known or
521 probable NRHP significance; and Heritage Zones, which are management overlays
522 identified by NASA in consultation with the SHPO.

523
524 1. Management Categories

525
526 Management Categories are defined as follows:

- 527
528 a. Category 1 Assets are individually listed in the NRHP, or are
529 known or likely to be individually eligible for listing in the NRHP;
530
531 b. Category 2 Assets are listed in the NRHP as contributing
532 resources to a historic district, or are known or likely to be eligible for
533 listing in the NRHP as such; and

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c. Category 3 Assets are known or likely to be ineligible for listing in the NRHP.

2. Assignment of Management Categories

a. Assets that have been evaluated for listing in the NRHP will be assigned a Management Category based upon the definitions above.

b. Assets that have not been evaluated will follow the categorization process specified below.

3. Categorization of Unevaluated Assets

The process for categorizing Assets is outlined in Appendix J – Asset Categorization.

a. Unevaluated Assets less than 50 years of age will be categorized based on NASA’s RSF Model rating, and then assigned a Management Category.

b. Unevaluated Assets that have reached 50 years of age will be categorized based on their NASA FCCS Class Code (Appendix C – NASA FCCS Class Codes).

i. Those in Facility Classes 1, 2, 3, or 6 are considered the most likely to be individually eligible for listing in the NRHP, and shall not be assigned a Management Category until they are formally evaluated, either as part of a G2G Survey per Stipulation IV.A.5 (G2G Architectural Surveys), or at such time as they are within the APE of a Project as identified under Stipulation VI (Individual Project Review – Initial Review).

ii. Those in Facility Classes 4, 5, 7 or 8 will be assigned as Management Category 3 Assets.

4. Asset Lists

Center CRMs shall prepare an Asset List identifying assigned Management Categories, to be appended to the NPA (Appendix N – Center Asset List). Upon execution of the NPA, a Participating Center shall manage its Assets consistent with the appended Asset List and assigned Management Categories until such time as a G2G Survey is completed under the terms of the NPA per Stipulation IV.A.5 (G2G Architectural Surveys).

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

a. A new Asset List is produced as part of the G2G Survey Report under Stipulation IV.A.5 (G2G Architectural Surveys);

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- b. An Asset is evaluated during Individual Project Review (Stipulation VI), in which case the Asset List will be updated to reflect the new information; or
- c. The Center CRM and SHPO agree to do so.

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

5. Gate-to-Gate Architectural Surveys

Within five years of the execution of the NPA, NASA shall perform G2G Survey at Participating Centers per the requirements of this stipulation. Thereafter, NASA shall update G2G Surveys every ten years.

G2G Surveys performed prior to or in progress at the time of NPA execution may be used to meet this requirement provided the NRHP evaluations were performed consistent with Stipulation IV.A.5.a.i. In such cases, the Center CRM shall prepare an Asset List per Stipulation IV.A.5.b and shall submit the G2G Survey Report for review per Stipulation IV.A.5.c.

a. Scope of G2G Surveys

As G2G Surveys will support the implementation of the NPA, NRHP evaluations will be performed according to this stipulation. NASA will prioritize Asset evaluation based upon age and potential to be NRHP-eligible as informed by the FCCS and RSF Model.

- i. Assets will be evaluated as individual resources within the historic contexts most likely to be relevant to the Asset, and as resources that contribute to a historic district. If found individually eligible, the level of significance (i.e., national, State, and/or local) shall be specified.
- ii. Unevaluated Assets 40 years of age or older, that are identified in the agency RPMS as falling within Facility Classes 1, 2, 3 and 6 (Appendix C – NASA FCCS Class Codes) shall be the priority in G2G Surveys.
- iii. NASA will not evaluate Assets in Facility Classes 4, 5, 7 or 8, except as contributing resources to a newly identified or updated historic district. These Assets will automatically be managed as Category 3 Assets unless otherwise evaluated in G2G Surveys.
- iv. G2G Surveys shall preliminarily identify Assets less than 40 years of age deemed likely to be eligible under NRHP Criteria

632 C, and CCG for exceptional architectural design per the RSF
633 Model. This need not be a full NRHP evaluation; rather, it is
634 intended only to inform the assignment of a Management
635 Category until a formal NRHP evaluation is performed.
636

637 b. Survey Reports

638 G2G Survey Reports shall include a comprehensive list of all Assets
639 (Asset List) with the following information.
640

641 i. Building number, building name, date of construction, and
642 FCCS Class Code.
643

644 ii. SHPO resource or site number, if applicable.
645

646 ii. Individual NRHP evaluation status, applicable Criteria,
647 relevant historic context, and level of significance; and contributing
648 or non-contributing status within an identified historic district and
649 the name of the historic district.
650

651 iii. For Assets evaluated prior to the current survey effort, the
652 date of their evaluation, and date of SHPO concurrence, if known.
653 If SHPO concurrence was not received, the lack of SHPO
654 objection will be noted.
655

656 iv. Assets preliminarily identified under Criteria C and CCG for
657 architecture per Stipulation IV.A.5.b.iv.
658

659 v. The assigned Management Category under which the
660 Asset will be managed. Any changes to previously assigned
661 Management Categories will be noted.
662

663 vi. If relevant, Assets located within a Heritage Zone, and the
664 name of the Heritage Zone.
665

666 G2G Survey Reports shall include maps that show the location of all
667 Assets coded according to Management Category, and the boundaries of
668 Heritage Zones and historic districts, as applicable.
669

670 Notwithstanding the requirements of this section, G2G Survey Reports
671 shall be prepared consistent with applicable SHPO standards, to the
672 extent that these standards are not in conflict with the terms of the NPA,
673 in which case, the NPA shall take precedence.
674

675 c. Review of G2G Survey Reports

676 The Center CRM shall submit the G2G Survey Report electronically to the
677 SHPO, copying the Center Consulting Parties. The review period shall be
678 60 days unless the Center CRM and the SHPO agree in writing to a
679
680

681 specified extension. During this review period, the SHPO may request a
682 site visit to aid in their review of the G2G Survey Report. Additionally, the
683 SHPO may request copies of previous survey reports on which the
684 assignment of Management Categories in Stipulation IV.A.2 are based.

685
686 i. No SHPO Objection

687
688 If the SHPO does not object in writing within the review period, the
689 Center CRM shall finalize the G2G Survey Report per Stipulation
690 IV.A.5.d (Final G2G Survey Reports).

691
692 ii. SHPO Objection

693
694 If within the review period the SHPO objects to NASA's findings,
695 then it shall do so in writing to the Center CRM, copying the
696 Center Consulting Parties, indicating the findings that are in
697 dispute. The Center CRM shall either accept the SHPO's
698 objection and revise NASA's findings or consult to resolve the
699 objection.

700
701 If the Center CRM elects to consult, they will schedule a
702 conference call or meeting with the SHPO and shall invite the
703 Center Consulting Parties to participate. The Center CRM and the
704 SHPO shall work to reach consensus on the findings that are the
705 subject of the dispute. If consensus is reached, the Center CRM
706 shall finalize the G2G Survey Report consistent with that
707 consensus.

708
709 If the Center CRM determines that consensus cannot be reached
710 within 30 days of the consultation call or meeting, then they shall
711 notify the FPO. The FPO shall determine whether additional
712 consultation to reach consensus is warranted, and if so, the length
713 of the additional consultation period. If consensus is reached
714 within the FPO-determined consultation period, NASA shall
715 finalize the G2G Survey Report consistent with that consensus.

716
717 If consensus is still not reached at the end of the FPO-designated
718 consultation period, the FPO will request a decision from the
719 Keeper of the National Register (Keeper). Once rendered by the
720 Keeper, the decision shall be deemed final. Thereafter the Center
721 CRM shall finalize the G2G Survey Report and submit an
722 electronic copy to the SHPO and Center Consulting Parties.

723
724 d. Final G2G Survey Reports

725
726 NASA's G2G Survey Reports shall be deemed final when the Center
727 CRM sends a copy of the finalized G2G Survey Report to the SHPO,
728 copying the Center Consulting Parties. Findings therein shall govern

729 NASA's management of Assets under the NPA until the next G2G Survey
730 Report is finalized.

731
732 6. Heritage Zones
733

734 Should the Center CRM or SHPO wish to identify a new Heritage Zone at a
735 Participating Center, or to revise the boundaries of an existing Heritage Zone,
736 then they may do so by mutual consent and with the authorization of the FPO.
737 The Center CRM shall thereafter update Appendix M – Heritage Zones per
738 Stipulation XXIV (Amendments).
739

740 **B. Archaeology**

741
742 1. Partnerships with Other Federal Agencies
743

744 For Participating Centers who are tenants of another federal agency and/or have
745 existing agreements in place with another federal agency for the management of
746 archaeological resources, the following processes for the identification of
747 archaeological resources shall not apply. Those Centers shall work with their
748 partner agencies to determine the appropriate path forward when a NASA
749 undertaking may have the potential to affect an archaeological or Native
750 American resource.
751

752 2. Assessment of Completed Archaeological Studies
753

754 Within one year of NPA execution, CRMs of Participating Centers shall submit all
755 previously conducted archaeological surveys, evaluations, and predictive models
756 (Archaeological Studies) that meet SHPO standards which have not yet received
757 SHPO concurrence to the SHPO and the appropriate Center Consulting Parties,
758 pursuant to Stipulation XXI (Handling of Sensitive Information). NASA shall
759 include a list of the contents of the submission and a summary table of findings.
760

761 SHPOs and the appropriate Center Consulting Parties shall have 60 days to
762 review and comment on the Archaeological Studies. The Center CRM shall
763 contact the Center Consulting Tribes to confirm their intent to comment within the
764 60-day review period. The Center CRM will consider requests from the SHPO
765 and Center Consulting Tribes to extend the review period to a maximum of 90
766 days. At the end of the review period, if no party has objected in writing to the
767 Center CRM, then NASA will conclude its assessment of Archaeological Studies
768 per Stipulation IV.B.2.b (Final Archaeological Studies).
769

770 If, at the end of the specified review period, the SHPO or any of the Center
771 Consulting Tribes have objected to the findings in writing, then the Center CRM
772 shall either accept the objection or consult to resolve the objection per Stipulation
773 IV.B.2.a (Review of Archaeological Studies).
774

775 a. Review of Archaeological Studies
776

777 The Center CRM shall schedule a meeting with the SHPO and Center
778 Consulting Tribes to consult regarding the disputed findings and shall
779 invite the appropriate Center Consulting Parties to participate. The parties
780 shall work to reach consensus on the findings that are the subject of the
781 dispute. If consensus is reached, then NASA will conclude its assessment
782 of Archaeological Studies per Stipulation IV.B.2.b (Final Archaeological
783 Studies).

784
785 If the Center CRM determines that consensus cannot be reached within
786 30 days of the consultation call or meeting, then they shall notify the FPO.
787 The FPO shall determine whether additional consultation to reach
788 consensus is warranted, and if so, the length of the additional
789 consultation period. If consensus is still not reached at the end of the
790 FPO-designated consultation period, the FPO will request a decision from
791 the Keeper. Once rendered by the Keeper, the decision shall be deemed
792 final. Thereafter the Center CRM shall conclude its assessment of
793 Archaeological Studies per Stipulation IV.B.2.b (Final Archaeological
794 Studies).

795
796 b. Final Archaeological Studies

797
798 The Center CRM shall document the results of the assessment of
799 Archaeological Studies in writing, copying the SHPO and appropriate
800 Center Consulting Parties. NASA shall thereafter use the results of the
801 review of Archaeological Studies to create the Archaeology Management
802 Plan described in Stipulation IV.B.3 (Development of Archaeology
803 Management Plan). If the final Archaeological Studies include an
804 archaeological predictive/sensitivity model, the Participating Center may
805 use that as its Archaeology Management Plan in lieu of developing a
806 separate plan per Stipulation IV.B.3.

807
808 3. Development of Archaeology Management Plan

809
810 Within three years of the execution of the NPA, each Participating Center will
811 create a Center-specific GIS-based archaeology tool that will include four GIS
812 layers: 1) the locations of archaeological survey per Stipulation IV.B.2.b (Final
813 Archaeological Studies); 2) known site locations; 3) an archaeological and
814 cultural sensitivity model; and 4) an archaeological disturbance assessment.

815
816 a. Archaeological and Cultural Sensitivity Model

817
818 In the absence of an existing sensitivity model, a Participating Center will
819 develop one. The model should meet the standards of the respective
820 SHPO, if applicable. Factors that may be considered in the development
821 of the archaeological and cultural model include but are not limited to
822 previous archaeological surveys and locations of known sites; historical
823 occupation of and/or activities in the area; and geological characteristics
824 of the area. The model will be developed by personnel meeting the SOI

825 Professional Qualification Standards in Archaeology, with demonstrated
826 regional expertise.

827
828 b. Archaeological Disturbance Assessment

829
830 A Participating Center will prepare an archaeological disturbance
831 assessment that will identify the archaeological potential for areas and
832 label them as having no, low, moderate or high potential, consistent with
833 the below definitions. The assessment will be developed by personnel
834 meeting the SOI Professional Qualification Standards in Archaeology,
835 with demonstrated regional expertise.

836
837 i. Areas with no potential are those where no archaeological
838 sites are considered possible (e.g., man-made land or areas
839 where very heavy grading and/or substantial removal of soil has
840 occurred).

841
842 ii. Areas with low potential are those where few-to-no
843 archaeological sites are considered likely (e.g., areas where
844 moderate-to-heavy grading and removal of soil has occurred,
845 highly developed areas with a high concentration of infrastructure
846 and underground utilities, and areas where soil remediation has
847 occurred).

848
849 iii. Areas of moderate potential are those where
850 archaeological sites may be intact, despite some level of
851 disturbance (e.g., infrastructure exists, but may be limited on a
852 geographic scale both vertically and horizontally, such as a
853 parking lot or ball field).

854
855 iv. Areas of high potential are those where little-to-no ground
856 disturbance has occurred (e.g., greenfield sites).

857
858 Participating Centers will synthesize these GIS layers to create one overarching
859 layer that will serve as the Archaeology Management Plan. The overarching layer
860 will identify areas of high (red), moderate (yellow), and low/no (green) potential
861 for intact archaeological deposits.

862
863 If a Center Consulting Tribe has identified an area of the Center as culturally
864 sensitive, a separate GIS layer will be created for this information and
865 incorporated into the Archaeology Management Plan.

866
867 4. Review of Archaeology Management Plan

868
869 The Center CRM shall submit the Archaeology Management Plan (i.e., all four
870 layers and the final model layer) electronically to the SHPO and the appropriate
871 Center Consulting Parties, for review, pursuant to Stipulation XXI (Handling of
872 Sensitive Information). The SHPO and Center Consulting Parties shall have 30
873 days to review the plan and provide written comments to the Center CRM. The

874 Center CRM shall contact the Center Consulting Tribes to confirm the Tribes'
875 intent to comment within 30 days from receipt of the draft plan.
876

877 a. No Objection

878
879 If the SHPO and Center Consulting Tribes do not object within the 30-day
880 review period, then the Center CRM shall finalize the plan and submit an
881 electronic version to the SHPO and Center Consulting Parties.
882

883 b. Objection

884
885 If the SHPO or Center Consulting Tribes object to the findings of the plan
886 within the 30-day review period, the Center CRM shall notify the FPO.
887 The FPO shall determine whether additional consultation to reach
888 consensus is warranted, and if so, the length of the additional
889 consultation period. If consensus is reached within the FPO-determined
890 consultation period, the Center CRM shall finalize the plan consistent with
891 that consensus and submit an electronic version to the SHPO and Center
892 Consulting Parties.
893

894 If consensus is still not reached at the end of the FPO-designated
895 consultation period, the FPO will notify the ACHP and NCSHPO of
896 NASA's intended decision on the subject(s) of the dispute. The ACHP
897 and NCSHPO shall have 15 days to comment on the dispute and NASA's
898 proposed resolution. Following the 15-day review period, the FPO shall
899 consider input received and notify the ACHP, NCSHPO, and Center
900 Consulting Parties of NASA's decision. Thereafter the Center CRM shall
901 finalize the Archaeology Management Plan and submit an electronic
902 version to the SHPO and Center Consulting Parties.
903

904 5. Revising the Archaeology Management Plan

905
906 In the event that NASA identifies previously unknown archaeological sites or
907 conducts a new archaeological survey for which SHPO concurrence is received,
908 the Center CRM will revise and update the Archaeology Management Plan
909 accordingly. The Center CRM will report on the status of Archaeological
910 Management Plan revisions and updates in the Annual Report (Stipulation XIV).
911

912 6. Using the Archaeology Management Plan

913
914 The Center CRM shall apply the data in the Archaeology Management Plan to
915 determine the need for archaeological and cultural studies for a Project involving
916 ground disturbance. If an area has been previously surveyed archaeologically,
917 the Center CRM shall use the findings of that survey to complete Individual
918 Project Review.
919

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

923
924

Assessment Matrix for Areas Not Previously Surveyed

Archaeological Potential	Level of Project Disturbance	
	Negligible	Moderate to Major
None	No Further Action	No Further Action
Low	No Further Action	No Further Action
Moderate	No Further Action	Conduct Archaeological Survey
High	Conduct Archaeological Monitoring	Conduct Archaeological Survey

925
926
927
928
929
930

In cases where archaeological monitoring or survey is indicated in the above matrix, the Center CRM may elect to consult with the SHPO and Center Consulting Parties to determine the appropriate level of effort. No further action or monitoring in lieu of survey may be acceptable if no objections are received.

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936

Irrespective of archaeological potential and disturbance, if an area has been determined to be culturally sensitive by a Center Consulting Tribe, the Center CRM will consult with the Center Consulting Tribe on a project-by-project basis. If a Center Consulting Tribe requests archaeological monitoring during Individual Project Review, it will be done in accordance with Stipulation IV.B.7 (Archaeological Monitoring).

937
938

7. Archaeological Monitoring

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940
941

Archaeological monitoring may be conducted during ground disturbing activities under the following conditions:

942
943
944
945
946
947
948

a. Where called for in the Assessment Matrix for Areas Not Previously Surveyed;

b. Where, through consultation, SHPO and NASA agree that monitoring in lieu of survey is appropriate;

949
950
951

c. Following an inadvertent discovery during construction or in cases where a known historic property has the potential to be affected in an unanticipated manner;

952
953
954

d. When specified in an archaeological report that has been accepted by the SHPO;

955
956
957

e. In areas that have been identified by a Center Consulting Tribe as culturally sensitive, if the Tribe so requests; or

958
959
960

f. Where routine work/maintenance is taking place within the boundaries of a known site that is NRHP-eligible, NRHP-listed, or

961 unevaluated for NRHP eligibility, and work is not expected to disturb
962 deposits.
963

964 Archaeological monitoring will be conducted by personnel who either meet the
965 SOI Professional Qualification Standards in Archaeology or have taken SHPO
966 training to be a monitor in that state.
967

968 If through consultation, a Center Consulting Tribe requests that a Tribal
969 monitor(s) be present, NASA will consider this request, taking mission and timing
970 requirements into consideration, and ensure additional Tribal monitors are
971 present to the greatest extent feasible.
972

973 A memo detailing the results of the ground disturbance will be drafted and
974 included with the NASA Center Annual Report per Stipulation XIV. If cultural
975 materials are found, NASA shall proceed per Stipulation XVII (Inadvertent
976 Discoveries).
977

978 8. Archaeological Survey
979

980 NASA shall conduct an archaeological survey consistent with SHPO
981 requirements. The Center CRM will consider Center Consulting Tribe
982 requirements, if provided in writing. The Center CRM shall submit the
983 archaeological survey to the SHPO and the appropriate Center Consulting
984 Parties for review, pursuant to Stipulation XXI (Handling of Sensitive
985 Information). SHPO and Center Consulting Parties shall have 30 days to review
986 the report and provide written comments to the Center CRM regarding the
987 methodology employed and the survey results are complete and sufficient. The
988 Center CRM shall contact the Center Consulting Tribes to confirm their intent to
989 comment within 30 days from receipt of the draft report.
990

991 a. No Objection
992

993 If the SHPO and Center Consulting Tribes do not object within the 30-day
994 review period, then the Center CRM shall finalize the report, submit an
995 electronic copy to the SHPO and appropriate Center Consulting Parties
996 and update the Archaeology Management Plan accordingly.
997

998 b. Objection
999

1000 If the SHPO or Center Consulting Tribes object to the findings of the
1001 archaeological survey within the 30-day review period, the Center CRM
1002 shall notify the FPO. The FPO shall determine whether additional
1003 consultation to reach consensus is warranted, and if so, the length of the
1004 additional consultation period. If consensus is reached within the FPO-
1005 determined consultation period, the Center CRM shall finalize the report
1006 consistent with that consensus, submit an electronic copy to the SHPO
1007 and appropriate Center Consulting Parties, and update the Archaeology
1008 Management Plan accordingly.

1009 If consensus is still not reached at the end of the FPO-designated
1010 consultation period, the FPO will request a decision from the Keeper.
1011 Once rendered by the Keeper, the decision shall be deemed final.
1012 Thereafter the Center CRM shall finalize the report, submit an electronic
1013 copy to the SHPO and Center Consulting Parties and update the
1014 Archaeology Management Plan accordingly.
1015

1016 **V. INCORPORATION OF HISTORIC PRESERVATION IN CENTER PLANNING**

1017
1018 NASA shall make a reasonable and good-faith effort to identify feasible alternatives to adverse
1019 effects in the earliest possible stages of Project planning. For Projects within identified Heritage
1020 Zones, NASA shall, in consultation with the SHPO, afford special consideration to the
1021 preservation of defining characteristics and, to the extent possible while meeting mission
1022 requirements, ensure New Construction and Exterior Modification Projects are compatible and
1023 do not diminish those characteristics. Demolition of historic properties within Heritage Zones will
1024 be deemed an action of last resort following a thorough evaluation of alternatives.
1025

1026 **A. Center Master Plan (CMP)**

1027
1028 NASA Center personnel shall engage the Center Consulting Parties during the
1029 development of the CMP to allow for consideration of alternatives to avoid adverse
1030 effects to historic properties. The Center CRM shall deliver a draft CMP electronically to
1031 the SHPO, copying the Center Consulting Parties. The SHPO will have 30 days to
1032 review and comment upon the draft. NASA shall maintain a record of potential adverse
1033 effects to historic properties discussed during the CMP update process, the alternatives
1034 considered, and the final recommendations integrated into the CMP.
1035

1036 CMPs shall integrate information about historic properties and Heritage Zones into the
1037 development plans. Heritage Zones shall be identified as areas of heightened design
1038 sensitivity subject to consultation under the NPA.
1039

1040 **B. Integrated Cultural Resources Management Plans (ICRMPs)**

1041
1042 Center ICRMPs are reviewed and updated annually. Participating Center ICRMPs will be
1043 updated to include information relevant to the NPA, including: 1) a copy of the executed
1044 NPA, or link to its location; 2) Asset List for the Center; 3) Maps and descriptions of
1045 Heritage Zones; and 4) Standard Operating Procedures (SOPs) for Center G2G Surveys
1046 consistent with the NPA.
1047

1048 **C. Heritage Zone Design Guidelines**

1049
1050 Participating Centers with Heritage Zones may elect to develop Heritage Zone Design
1051 Guidelines in consultation with SHPO to manage Projects within Heritage Zones in a
1052 manner that preserves their distinct features. Heritage Zone Design Guidelines must be
1053 reviewed by and concurred with by the SHPO.
1054

1055 If a Heritage Zone falls within an identified NRHP-eligible or listed historic district, and
1056 that Center has SHPO-approved historic district design guidelines for that historic

1057 district, then those design guidelines may be used in lieu of Heritage Zone Design
1058 Guidelines.
1059

1060 VI. INDIVIDUAL PROJECT REVIEW – INITIAL REVIEW

1061
1062 When a Project is approved for funding, the Center CRM shall determine whether the Project
1063 has the potential to adversely affect historic properties pursuant to § 36 CFR 800.3(a) and shall
1064 initiate the appropriate process to be followed under the NPA. The CRM and relevant project
1065 personnel will review and consider any outstanding Center Consulting Party comments offered
1066 during Center master planning regarding alternatives to adverse effects to historic properties.
1067

1068 For Outgrant Projects, the Center CRM will either elect to: 1) define the Outgrant of the property
1069 as the undertaking, apply the criteria of effect, and resolve any adverse effects in conjunction
1070 with the execution of the partnership agreement; or 2) maintain oversight of the Asset
1071 throughout the duration of the partnership agreement and individually review proposed changes
1072 to Assets when proposed by the tenant. The approach will be determined in conjunction with
1073 Center master planners and the tenant.
1074

1075 A flow chart for Stipulation VI is included in Appendix K – Individual Project Review Flow Charts.
1076

1077 A. Initial Screening for Programmatic Allowance Applicability

1078
1079 The NASA CRM shall evaluate the undertaking to determine if it qualifies for exclusion,
1080 pursuant to Appendix I – Programmatic Allowances. NASA may undertake these
1081 activities without Project-specific consultation. Any adverse effects resulting from the
1082 application of a Programmatic Allowance will be resolved through Stipulation XI.A
1083 (Programmatic Mitigation) prepared pursuant to this NPA.
1084

1085 If the Center CRM determines that all aspects of the Project meet the Programmatic
1086 Allowances (“excluded” Project), then the Center CRM shall document this determination
1087 for inclusion in the NASA Center Annual Report per Stipulation XIV.
1088

1089 If a Project or any component thereof is not excluded from further review per a
1090 Programmatic Allowance, the Center CRM will continue to Stipulation VI.B (Identification
1091 of Affected Properties).
1092

1093 B. Identification of Affected Properties

1094 1. Defining the Project APE

1095
1096 The Project APE shall be defined using the table below. For multi-component
1097 Projects, the APE shall be the aggregate of all component APEs.
1098
1099
1100
1101

1102

Project Type APEs

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

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The HTSF nature of NASA Centers and the activities occurring thereon is the primary consideration in limiting the size of APEs. Outside of Heritage Zones, alterations to Assets are not likely to have adverse visual effects on adjacent historic properties, should they be present.

1109

2. Identification of Properties in the APE

1110

1111

1112

1113

1114

The CRM shall consider whether any of the following are located within the APE: 1) a Heritage Zone (defined in Appendix M – Heritage Zones); 2) a Category 1 Asset (per Appendix N – Center Asset List); or 3) an NRHP-eligible or potentially eligible archaeological site or Tribal cultural resource.

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1121

If an Asset within the APE is not included in the Asset List, then the Center CRM shall assign a Management Category per Appendix J – Asset Categorization. Should Appendix J indicate that the Asset should be evaluated, then the Center CRM shall either: assume that the Asset is individually eligible for listing in the NRHP (i.e., Category 1); or formally evaluate the Asset and obtain SHPO concurrence.

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1127

To make a good-faith effort to identify the presence or absence of NRHP-eligible or potentially eligible archaeological sites or Tribal cultural resources within the APE, the Center CRM will refer to the Archaeological Management Plan and Assessment Matrix for Areas Not Previously Surveyed to determine the approach.

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If the CRM determines that none of the above conditions apply, then the Center CRM shall document this determination for inclusion in the NASA Center Annual Report. The Project may proceed without further action under the NPA, notwithstanding inadvertent discoveries per Stipulation XVII (Inadvertent Discoveries). In the unlikely event that any cumulative or adverse effects occur, they will be mitigated through Programmatic Mitigation per Stipulation XI (Treatment Measures).

1136

1137

1138

1139

If the CRM determines that any of the above conditions apply, then the CRM will proceed to the appropriate stipulation as indicated below.

- 1140 a. For any non-excluded Project outside of Heritage Zones that
1141 contains Category 1 Assets and/or eligible or potentially eligible
1142 archaeological sites or Tribal cultural resources, proceed to Stipulation VII
1143 (Individual Project Review – Projects Outside Heritage Zones);
1144
1145 b. For any non-excluded Project that includes either Exterior
1146 Modification or New Construction, where the APE includes any portion of
1147 a Heritage Zone, proceed to Stipulation VIII (Individual Project Review –
1148 Exterior Modification or New Construction Inside a Heritage Zone); or
1149
1150 c. For all other non-excluded Projects where the APE includes any
1151 portion of a Heritage Zone, including Demolition and Transfer to non-
1152 federal entities, proceed to Stipulation IX (Individual Project Review – All
1153 Other Projects Inside a Heritage Zone).
1154

1155 **VII. INDIVIDUAL PROJECT REVIEW – PROJECTS OUTSIDE OF HERITAGE ZONES**

1156
1157 For any non-excluded Project outside of Heritage Zones that contain Category 1 Assets, eligible
1158 or potentially eligible archaeological sites, and/or Tribal cultural resources, NASA shall carry out
1159 the following stipulations.
1160

1161 A flow chart for Stipulation VII is included in Appendix K – Individual Project Review Flow
1162 Charts.
1163

1164 **A. Determination of Effect**

1165
1166 The NASA Center or Center CRM will make a determination of effect. In the event of a
1167 likely adverse effect, NASA will first consider whether the Project can be feasibly altered
1168 to avoid or minimize adverse effects.
1169

1170 **B. Initiate Consultation**

1171
1172 The Center CRM will initiate consultation via a Notification Letter, per Stipulation X.A
1173 (Notification Letter).
1174

1175 If objections are received in response to the Notification Letter, the Center CRM will
1176 follow the process outlined in Stipulation X.B (Resolving Objections).
1177

1178 **C. No Adverse Effects**

1179
1180 If the Center CRM does not receive any objections to a determination of no adverse
1181 effects, then the Project may proceed without further action under the NPA,
1182 notwithstanding inadvertent discoveries per Stipulation XVII (Inadvertent Discoveries).
1183

1184 **D. Adverse Effects**

1185 If a Category 1 Asset will be adversely affected, then NASA will complete recordation of
1186 the Asset per Stipulation XI.C (Recordation of Category 1 Assets).
1187

1188 If eligible archaeological historic properties will be adversely affected, then NASA will
1189 develop an Archaeology Mitigation Plan per Stipulation XI.D (Archaeology Mitigation
1190 Plan).

1191 **VIII. INDIVIDUAL PROJECT REVIEW – EXTERIOR MODIFICATION AND NEW**
1192 **CONSTRUCTION INSIDE HERITAGE ZONES**

1193
1194 For any non-excluded Project that includes either Exterior Modification or New Construction and
1195 the APE includes any portion of a Heritage Zone, NASA shall carry out the following
1196 stipulations. The more robust process reflects the fact that it is generally more feasible to revise
1197 these Project types in a manner that minimizes or avoids adverse effects.

1198
1199 A flow chart for Stipulation VIII is included in Appendix K – Individual Project Review Flow
1200 Charts.

1201
1202 **A. Determination of Effect**

1203
1204 The NASA Center or Center CRM will make a determination of effect. In the event of a
1205 likely adverse effect, NASA will first consider whether the Project can be feasibly altered
1206 to avoid or minimize adverse effects.

1207
1208 **B. Initiate Consultation**

1209
1210 The Center CRM will initiate consultation via a Notification Letter, per Stipulation X.A
1211 (Notification Letter).

1212
1213 If no objections are received, the Center CRM will proceed to Stipulation VIII.C (No
1214 Adverse Effects) or Stipulation VIII.D (Adverse Effects) as appropriate.

1215
1216 If objections are received, the Center CRM will proceed to Stipulation VIII.D (Adverse
1217 Effects).

1218
1219 **C. No Adverse Effects**

1220
1221 If NASA receives no objections to the determination that the Project will have no adverse
1222 effect to historic properties in the Heritage Zone, the Project may proceed without further
1223 action under the NPA, notwithstanding inadvertent discoveries per Stipulation XVII
1224 (Inadvertent Discoveries).

1225
1226 **D. Adverse Effects**

1227
1228 If NASA determines that the Project will have an adverse effect to historic properties
1229 within the Heritage Zone, or if NASA receives an objection to its No Adverse Effect
1230 determination, NASA shall consult further to identify ways to avoid and minimize those
1231 adverse effects. If at any time all parties agree that avoidance of adverse effects is not
1232 feasible, NASA may incorporate minimization measures proposed during consultation.
1233 NASA will then resolve adverse effects per Stipulation VIII.D.3 (Resolution of Adverse
1234 Effects).

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1236 1. Consideration of Alternatives

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

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

2. Project Revisions

If at any time NASA elects to revise the Project to avoid adverse effects to historic properties in the Heritage Zone, then the Center CRM shall prepare a formal addendum (Addendum) to the Notification Letter prepared under Stipulation X.A (Notification Letter) with a revised Project description and finding of effect. The Center CRM shall send the Addendum to the SHPO, copying the ACHP and Center Consulting Parties. The parties shall have 15 days to object to the Addendum in writing.

- a. If no objection is received within 15 days of the Addendum, the Center CRM shall proceed with the revised Project per Stipulation VIII.C (No Adverse Effect).
- b. If an objection is received, the Center CRM may elect to continue consultation, or may accept a determination of adverse effect, and proceed per Stipulation VIII.D.3 (Resolution of Adverse Effects).

3. Resolution of Adverse Effects

If NASA determines that it cannot avoid adverse effects to historic properties in the Heritage Zone, then NASA shall proceed per Stipulation XI.B (Heritage Zone Mitigation Plan).

In the event that the only adverse effects of the Project are to NRHP-eligible archaeological sites, then NASA shall develop an Archaeology Mitigation Plan per Stipulation XI.D (Archaeology Mitigation Plan).

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

1284 For all other non-excluded Projects where the APE includes any portion of a Heritage Zone,
1285 including Demolition and Transfer to non-federal entities, NASA shall carry out the following
1286 stipulations.

1287
1288 A flow chart for Stipulation IX is included in Appendix K – Individual Project Review Flow Charts.
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1291 **A. Determination of Effect**
1292
1293 The NASA Center or Center CRM will make a determination of effect. In the event of a
1294 likely adverse effect, NASA will first consider whether the Project can be feasibly altered
1295 to avoid or minimize adverse effects.

1296 **B. Initiate Consultation**
1297
1298 The Center CRM will initiate consultation via a Notification Letter, per Stipulation X.A
1299 (Notification Letter).
1300

1301 If objections are received in response to the Notification Letter, the Center CRM will
1302 follow the process outlined in Stipulation X.B (Resolving Objections).
1303

1304 **C. No Adverse Effects**
1305
1306 If NASA receives no objections to the determination that the Project will have no adverse
1307 effect to historic properties in the Heritage Zone, the Project may proceed without further
1308 action under the NPA, notwithstanding inadvertent discoveries per Stipulation XVII
1309 (Inadvertent Discoveries).
1310

1311 **D. Adverse Effects**
1312
1313 If NASA determines that it cannot avoid adverse effects to historic properties in the
1314 Heritage Zone, then NASA will proceed per Stipulation XI.B (Heritage Zone Mitigation
1315 Plan).
1316

1317 If adverse effects are limited to archaeological historic properties, then NASA will
1318 develop an Archaeology Mitigation Plan per Stipulation XI.D (Archaeology Mitigation
1319 Plan).
1320

1321
1322 **X. INDIVIDUAL PROJECT REVIEW – CONSULTATION**

1323 **A. Notification Letter**
1324
1325 The Center CRM shall send a Notification Letter (Notification Letter) to the SHPO,
1326 copying the Center Consulting Parties, that, at a minimum, provides the following
1327 information:
1328

- 1329
- 1330 1. A description of the Project with a timeline, if known;
 - 1331
 - 1332 2. Documents relating to Project plans, such as photographs and
1333 architectural drawings;
 - 1334
 - 1335 3. A map of the APE and environs;
 - 1336
 - 1337 4. Resource Identification Information:
1338

- 1339 a. The Assets located within the APE and their corresponding
1340 Management Category;
1341 b. If applicable, the boundaries of the Heritage Zone(s); and
1342
1343 c. If the Project involves ground disturbance, a list of the
1344 archeological sites within the APE or the archaeological potential within
1345 based upon the Archaeology Management Plan;
1346
1347 5. Assessment of Effects:
1348
1349 a. NASA’s determination of effect, citing Heritage Zone Design
1350 Guidelines, if applicable; and
1351
1352 b. The avoidance alternatives considered by NASA, the reasons for
1353 their rejection, and any efforts adopted to minimize adverse effects, if
1354 applicable; and
1355
1356 6. NASA’s intended path forward under the NPA including the relevant
1357 mitigation measures, if applicable.
1358

1359 The SHPO and Center Consulting Parties shall have 30 days to review the Notification
1360 Letter and provide comments in writing to the Center CRM, including any
1361 recommendations for project revisions to avoid adverse effects, as appropriate.
1362

1363 **B. Resolving Objections**

1364
1365 If objections are received, NASA will consider the comments and issue a response,
1366 indicating NASA’s intent to revise the determination of effect, NASA’s intent to revise the
1367 Project based on the comments, or NASA’s intent to move forward with the Project
1368 without revisions. Thereafter, the Center CRM shall proceed according to the relevant
1369 stipulation.
1370

1371 Objections received pursuant to Stipulation VIII.D will proceed according to the process
1372 specifically outlined in that stipulation.
1373

1374 **XI. TREATMENT MEASURES**

1375 **A. Programmatic Mitigation**

1376 1. Digital Map Content

1377
1378 NASA will create a new public website where it will maintain an interactive digital
1380 map (Digital Map) for each Participating Center as programmatic mitigation for
1381 adverse effects to historic properties from Projects not otherwise mitigated,
1382 individually or cumulatively, under the NPA stipulations. The Digital Map will
1383 reflect the Participating Center’s current condition, identify extant Category 1
1384 Assets, historic districts, and other cultural resources of interest, and link to
1385 image, video, and textual resources that describe the historical use and
1386 significance of the highlighted cultural resources. The Digital Map will show
1387

1388 current satellite imagery, with georeferenced documentary/historic aerials and
1389 maps that depict the Centers during several key time periods, one of which will
1390 be during or immediately after the Center's initial build-out. The Digital Map will
1391 serve as an intuitive online portal to existing and archived data such as
1392 documentary/historic photography, Historic American Buildings Survey (HABS)
1393 or Historic American Engineering Record (HAER) recordation, architectural
1394 survey reports, primary resource material such as videos and oral history
1395 interviews, and other resources as appropriate.
1396

1397 2. Digital Map Implementation Plan
1398

1399 NASA shall have two years from the execution of the NPA to complete the initial
1400 build-out of the Digital Map. Within one year of NPA execution, the FPO shall
1401 submit an implementation plan to the Signatories, copying the NPA Consulting
1402 Parties, for review. The Signatories and NPA Consulting Parties shall have 30
1403 days to review the implementation plan and provide comments to the FPO. The
1404 FPO may elect to have a consultation meeting with the parties to discuss the
1405 implementation plan prior to finalizing it.
1406

1407 Once the initial build-out is completed, NASA shall regularly update and add to
1408 the Digital Map as documentation of Assets under the NPA and other relevant
1409 historical information becomes available. NASA shall report on development of
1410 the Digital Map annually under Stipulation XIII (NPA Monitoring) and shall
1411 provide the respective SHPOs and Center Consulting Parties the opportunity to
1412 review and comment on the Digital Map on an annual basis, including ways to
1413 enhance the product and maximize public exposure.
1414

1415 NASA shall maintain the Digital Map for the duration of the NPA. Prior to the
1416 anticipated termination or expiration of the NPA, the FPO shall consult with the
1417 ACHP and NCSHPO to develop a plan for the maintenance of the Digital Map by
1418 NASA or another entity or entities, or if no such entity is identified, a plan for the
1419 permanent curation of the information contained in the Digital Map.
1420

1421 **B. Heritage Zone Mitigation Plan**
1422

1423 If NASA determines that it cannot avoid adverse effects to historic properties in a
1424 Heritage Zone, then NASA shall consult with the Center Consulting Parties to determine
1425 the appropriate mitigation and proceed with one of the following as appropriate.
1426

1427 1. No Mitigation
1428

1429 If there is consensus among the parties that the effects are such that no Heritage
1430 Zone Mitigation Plan is required, then NASA shall notify the Center Consulting
1431 Parties of the consensus and its intent to proceed with the Project without further
1432 consultation, notwithstanding inadvertent discoveries per Stipulation XVII
1433 (Inadvertent Discoveries).
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2. Development of Heritage Zone Mitigation Plan

NASA shall develop a Heritage Zone Mitigation Plan with proposed measures addressing the Heritage Zone and/or historic properties within the Heritage Zone. The plan will reflect the scale and extent of adverse effects reflective of any minimization measures that were incorporated based upon comments received during consultation. If an NRHP-eligible archaeological site will be adversely affected, then the Heritage Zone Mitigation Plan must address archaeological as well as aboveground resources.

The Center CRM shall submit a proposed Heritage Zone Mitigation Plan electronically to the SHPO, copying the Center Consulting Parties. The Center Consulting Parties shall have 30 days to review the Heritage Zone Mitigation Plan and to provide written comments. If the SHPO or any Center Consulting Party objects to the Mitigation Plan, then the Center CRM shall either:

- a. Consult with the party to resolve the objection for up to 30 days. If an agreement is reached, the Center CRM shall finalize the Heritage Zone Mitigation Plan accordingly and distribute documents to the SHPO and Center Consulting Parties. If no agreement is reached within 30 days, then the Center CRM will proceed to Stipulation XI.B.2.b.
- b. The Center CRM shall notify the FPO and ACHP of the failure to reach agreement and provide the proposed Heritage Zone Mitigation Plan along with relevant SHPO and Center Consulting Party input. The ACHP shall have 30 days to review the materials and provide their comments to the FPO. The FPO shall consider the input of the ACHP, SHPO, and Center Consulting Parties and render a final decision on the Heritage Zone Mitigation Plan. This decision will be documented in a formal letter from the FPO to the ACHP, copying the SHPO, and the Center Consulting Parties.

C. Recordation of Category 1 Assets

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

1. Exterior Views
 - a. 10 views of the Asset within its larger context;
 - b. 8 views of the entire Asset such that all sides are documented;
and
 - c. Details of CDFs.

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- 1487 2. Interior Views (if applicable and feasible)
- 1488
- 1489 a. Multiple views of each primary public space (e.g., lobbies);
- 1490
- 1491 b. Representative views of major circulation spaces (e.g., hallways);
- 1492
- 1493 c. Multiple views of functionally significant work spaces (e.g.,
- 1494 laboratories, clean rooms, test chambers), including equipment,
- 1495 instruments, and furniture; and
- 1496
- 1497 d. Representative views of administrative spaces (e.g., offices,
- 1498 meeting rooms).
- 1499

1500 Photographic recordation shall be accompanied by a written component that provides, at

1501 a minimum, the name of the resource, date of construction, architect or engineer (if

1502 known), original function, and basic contextual information.

1503

1504 NASA shall undertake recordation of the Asset prior to commencing work. Upon

1505 completion, the Center CRM shall submit an electronic copy of the final recordation

1506 package to the SHPO and shall link the electronic version of the recordation package to

1507 the Digital Map.

1508

1509 NASA shall not be required to document an Asset under this stipulation if any of the

1510 following apply:

1511

- 1512 1. The Asset has been previously recorded to these or higher standards,
- 1513 such as HAER Level 1 or Level 2 recordation, and has not been substantially
- 1514 altered since that time; or
- 1515
- 1516 2. Another example of the Asset of comparable or superior NRHP integrity
- 1517 remains extant and in NASA's ownership or control; or
- 1518
- 1519 3. In the event that two or more of the same Asset type are adversely
- 1520 affected by the same Project such that recordation under this stipulation is
- 1521 required, NASA need not document all of these Assets, but may document the
- 1522 best example of that Asset type.
- 1523

1524 If the Asset has been previously recorded to HABS/HAER or higher standards, then

1525 NASA shall make the package available via the Digital Map and thereafter shall have no

1526 further requirements under this stipulation.

1527

1528 **D. Archaeology Mitigation Plan**

1529

1530 If mitigation of an NRHP-listed, eligible, or potentially eligible archaeological site is

1531 necessary, then the Center CRM, in consultation with the SHPO and appropriate Center

1532 Consulting Parties, shall develop a written Archaeology Mitigation Plan that outlines

1533 measures to resolve adverse effects to the site, and shall submit it electronically to the

1534 SHPO and appropriate Center Consulting Parties, pursuant to Stipulation XXI (Handling

1535 of Sensitive Data). The Mitigation Plan may include alternative mitigations, rather than

1536 data recovery measures, that contribute towards the public’s understanding of the
1537 historical significance of NASA-owned or -controlled archaeological resources. The
1538 Archaeology Mitigation Plan shall include a scope of work with sufficient detail that it
1539 could be used as the basis for solicitation of bids.

1540
1541 SHPO and appropriate Center Consulting Parties shall have 30 days to review the
1542 Archaeology Mitigation Plan and provide written comments to the Center CRM. The
1543 Center CRM shall contact Center Consulting Tribes, if applicable, to confirm their intent
1544 to comment within 30 days from receipt of the Mitigation Plan. NASA will consider
1545 requests from the SHPO and Center Consulting Parties to extend the review period to
1546 45 days. If no objection is received from the SHPO or any of the Center Consulting
1547 Parties within the specified review period, then the Center CRM may finalize the
1548 Archaeology Mitigation Plan and submit an electronic copy to the SHPO and appropriate
1549 Center Consulting Parties.

1550
1551 If the SHPO or any Center Consulting Tribe objects to the Archaeology Mitigation Plan,
1552 then the Center CRM shall either:

- 1553
- 1554 1. Convene a meeting between the SHPO and Center Consulting Tribes to
1555 discuss the disagreement and work towards a consensus resolution; or
1556
 - 1557 2. Notify the FPO, who will forward NASA’s findings, along with the SHPO’s
1558 comments and Center Consulting Tribes’ comments, to the ACHP, copying the
1559 NCSHPO and Center Consulting Parties, with the intended resolution. The ACHP
1560 and NCSHPO shall have 15 days to comment on the dispute and NASA’s
1561 proposed resolution. Following the 15-day review period, the FPO shall consider
1562 input received and notify the ACHP, NCSHPO, and Center Consulting Parties of
1563 NASA’s decision. Thereafter the Center CRM shall finalize the Archaeology
1564 Mitigation Plan and submit an electronic version to the SHPO and appropriate
1565 Center Consulting Parties.
- 1566

1567 **XII. GENERAL PROVISIONS**

1568
1569 A. The definitions in 36 CFR Part 800 are applicable to the NPA and are
1570 incorporated by reference herein. Definitions specific to the NPA are listed in Appendix E
1571 – Definitions.

1572
1573 B. Anything “written” and “in writing” refers to hardcopy or electronic communication.
1574 All communications, submissions, and reporting shall be in writing and delivered
1575 electronically, unless a specific request for a hardcopy is made to the issuing party in
1576 writing or it is required by SHPO standards.

1577
1578 C. Unless otherwise indicated, “days” shall mean calendar days.

1579 **XIII. NPA MONITORING PERIOD**

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1581
1582 The FPO will seek input from Signatories and NPA Consulting Parties, and Center
1583 Consulting Parties regarding the NPA for two calendar years immediately following the
1584 execution of this NPA.

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A. The FPO will hold quarterly teleconference calls with Signatories to discuss the implementation of the NPA.

B. At the end of each year during the monitoring period, Signatories will submit written comments regarding the implementation of the NPA to the FPO.

C. Within 90 days of receipt of written comments, the FPO will convene a meeting of the Signatories to review the comments and discuss approaches to resolve any concerns.

D. NASA will make the results of the annual meetings publicly available via the NASA NPA website.

XIV. ANNUAL REPORTING

A. Each year following the execution of the NPA until it expires or is terminated, each Participating Center CRM shall prepare an Annual Report (NASA Center Annual Report) and distribute it to their respective SHPO, Center Consulting Parties, and the FPO. The NASA Center Annual Report will include, at a minimum, the relevant information from the list below:

1. A list of all Projects excluded from review under the NPA pursuant to the Programmatic Allowances (Appendix I – Programmatic Allowances), citing the applicable allowance(s);
2. A list of Projects for which consultation was conducted under Stipulation VII, VIII, or IX, including the date of conclusion of consultation and final determination of effects;
3. A list and summary of Projects resulting in Adverse Effects resolved through mitigation measures, and the completion status of the mitigation measures;
4. A list of architectural or archaeological surveys completed, and an updated Asset List or Archaeological Management Plan, as applicable, if not previously provided;
5. Archaeological monitoring reports required per Stipulation IV.B.7; and
6. A list and summary of any Inadvertent discoveries.

B. The FPO shall use the Center-Level Annual Reports to prepare an NPA-Level Annual Report for submission to the NPA Consulting Parties. This Report will include a general summary and assessment of NPA implementation, with any recommended improvements or amendments. Within 60 days of the FPO’s submittal of the NPA-Level Annual Report, any Signatory may request that the FPO convene a meeting with the NPA Consulting Parties to review the implementation of the NPA, any problems

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encountered, any disputes and objections received, and suggestions for improvements to NPA implementation.

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1637 XV. TRAINING

1638

1639 Prior to using this NPA as an alternative to standard Section 106 procedures, the relevant
1640 NASA personnel, including but not limited to Center CRMs, Center master planners, and Center
1641 project personnel, must receive training and a certificate documenting completion of training in
1642 the use and implementation of the NPA.

1643

1644 A. Within three months of the execution of the NPA, NASA will develop training
1645 materials, in consultation with the ACHP and NCSHPO.

1646

1647 B. The FPO, in consultation with ACHP and NCSHPO, will maintain and update
1648 training materials as needed to ensure it provides sufficient, accurate, and up-to-date
1649 information.

1650

1651 C. The FPO will make NPA training materials developed for NASA staff available to
1652 the Signatories, NPA Consulting Parties, and Center Consulting Parties upon request.

1653

1654 XVI. QUALIFICATIONS FOR SURVEY AND EVALUATION

1655

1656 A. NRHP evaluations carried out in the execution of the NPA shall be performed by
1657 or under the direct supervision of a person who meets the appropriate Secretary of the
1658 Interior's Professional Qualifications Standards (48 Federal Regulation [FR] 44738-9) in
1659 an applicable discipline.

1660

1661 B. The inclusion of traditional knowledge is a critical component in the identification
1662 and evaluation of historic properties. The Section 106 regulations at 36 CFR §
1663 800.4(c)(1) require federal agencies to acknowledge the special expertise of Indian
1664 Tribes in evaluating and, by extension, identifying historic properties of religious and
1665 cultural significance to them. It should also be noted that the regulations acknowledge
1666 that the passage of time, changing perceptions of significance, or incomplete prior
1667 evaluations may require the reevaluation for the presence of historic properties (36 CFR
1668 § 800.4(c)(1)). This is a particularly important consideration in planning for identification,
1669 because past identification and evaluation efforts may not have included the traditional
1670 knowledge held by Indian Tribes.

1671

1672 XVII. INADVERTENT DISCOVERIES

1673

1674 Any aboveground cultural resources or archaeological deposits newly discovered during any
1675 undertaking will be treated as eligible until such time as they have been evaluated by an SOI-
1676 qualified individual for NRHP eligibility and will be avoided insofar as possible.

1677

1678 In the event that an aboveground cultural resource or archaeological deposit is inadvertently
1679 discovered, work must cease, the Center CRM must be notified, and an SOI-qualified
1680 professional must be consulted. If the SOI-qualified professional recommends the resource as
1681 NRHP-eligible, the Center CRM will consult with the SHPO and Center Consulting Parties on
1682 the need for further investigation, such as archaeological testing and/or data recovery.

1683

1684 Thereafter, the Center CRM shall respond as directed in the Center ICRMP SOP.

1685 NASA shall make all reasonable efforts to avoid disturbing gravesites, including those
1686 containing Native American human remains and associated funerary artifacts. If previously
1687 unidentified human remains are discovered during ground disturbing activities, NASA shall
1688 respond as directed in the Center ICRMP SOP and the ACHP Policy Statement on Burial Sites,
1689 Human Remains, and Funerary Objects (March 1, 2023).

1690

1691 **XVIII. EMERGENCY SITUATIONS**

1692

1693 Should an Emergency Situation occur which represents an imminent threat to public health or
1694 safety, or creates a hazardous condition, NASA shall respond to the emergency or hazardous
1695 condition in the following manner.

1696

1697 **A. Exempted Activities**

1698

1699 In the event that NASA must undertake emergency response activities that are covered
1700 under the Programmatic Allowances, as applied by the Center CRM, then NASA shall
1701 proceed with those activities without further action under the NPA, notwithstanding
1702 inadvertent discoveries (Stipulation XVII – Inadvertent Discoveries). Any cumulative or
1703 adverse effects that may occur as a result of these activities will be mitigated through
1704 Programmatic Mitigation per Stipulation XI.A.

1705

1706 **B. Non-Exempted Activities**

1707

1708 Upon notification, the Center CRM shall immediately notify the SHPO and Center
1709 Consulting Parties of the Emergency Situation and the measures NASA has taken to
1710 respond to the Emergency Situation. Should the SHPO or Center Consulting Parties
1711 desire to provide technical assistance to NASA, they shall respond to the Center CRM
1712 accordingly within seven calendar days from notification, if the nature of the emergency
1713 or hazardous condition allows for such coordination. If NASA, the SHPO, or a Center
1714 Consulting Tribe determine that NASA's response to the Emergency Situation will
1715 adversely affect a Category 1 Asset, historic properties in a Heritage Zone, or a NRHP-
1716 eligible or potentially eligible archaeological site or Tribal cultural resources, then the
1717 Center CRM shall proceed with mitigation under the applicable stipulation:

1718

1719 1. For activities where the APE is entirely outside of a Heritage Zone,
1720 proceed to Stipulation VII.D; or

1721

1722 2. For activities where any part of the APE includes a Heritage Zone,
1723 proceed to Stipulation VIII.D or IX.D.

1724

1725 **XIX. ADOPTABILITY**

1726

1727 **A. Center Adoption After NPA Execution**

1728

1729 Should a NASA Center elect to opt in to the NPA—i.e., become a Participating Center—
1730 the Center CRM shall notify the FPO in writing, copying the SHPO and Center
1731 Consulting Parties, and shall take steps as appropriate to have the necessary
1732 management tools in place to enable its compliance with the NPA as a Participating

1733 Center. The FPO shall be responsible for ensuring that the following actions are carried
1734 out by the Center CRM.

1735
1736 1. Heritage Zones

1737
1738 The Center CRM shall consult with the FPO, SHPO, and Center Consulting
1739 Parties to determine if one or more Heritage Zone(s) is present at the Center,
1740 and if so, to define the boundaries of the Heritage Zone(s).

1741
1742 2. Asset List

1743
1744 The Center CRM will use the Asset Categorization procedures in Appendix J –
1745 Asset Categorization to prepare an Asset List consistent with Stipulation IV.A.4
1746 (Asset Lists), and shall submit the Asset List to the SHPO, copying Center
1747 Consulting Parties, for review.

1748
1749 3. Archaeology Management Plan

1750
1751 Within one year of its entry into the NPA as a Participating Center, the Center
1752 CRM will complete the assessment of completed archaeological studies
1753 consistent with Stipulation IV.B.2 (Assessment of Completed Archaeological
1754 Studies). Within three years of its entry into the NPA, the Center CRM will have
1755 in place an Archaeology Management Plan consistent with Stipulation IV.B.3
1756 (Development of Archaeology Management Plan).

1757
1758 Within one year, NASA will update the Digital Map with information for the Participating
1759 Center comparable to that developed for other Participating Centers under Stipulation
1760 XI.A (Programmatic Mitigation).

1761
1762 The FPO shall be responsible for revising Appendix H – Participating Centers to reflect
1763 the addition of a Participating Center in coordination with ACHP and NCSHPO.

1764
1765 **B. Federal Agencies**

1766
1767 In the event that a federal agency other than NASA is executing an undertaking that
1768 impacts NASA-owned or -controlled real property, such federal agency may become a
1769 Signatory to this NPA as a means of satisfying its Section 106 compliance
1770 responsibilities. To become a Signatory to this NPA, the Agency Official must provide
1771 written notice to the Signatories that the agency agrees to the terms of the NPA,
1772 specifying the extent of the agency's intent to participate in the NPA, and identifying the
1773 lead federal agency for the undertaking. Additionally, the agency must identify the
1774 personnel responsible for implementing the NPA requirements for the undertaking, and
1775 that personnel must complete the NPA training and receive a certification per Stipulation
1776 XV (Training). The participation of the agency is subject to approval by the Signatories,
1777 who must respond to the written notice within 30 calendar days or the approval will be
1778 considered implicit.

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1780

1781 **XX. ANTI-DEFICIENCY ACT**

1782
1783 NASA's future efforts to execute requirements arising from the stipulations of the NPA are
1784 subject to the provisions of the Anti-Deficiency Act. If compliance with the Anti-Deficiency Act
1785 alters or impairs NASA's ability to implement the stipulations of the NPA, NASA shall consult in
1786 accordance with the amendment and termination procedures found in Stipulation XXIV
1787 (Amendments) and Stipulation XXV (Termination) of this Agreement. No provision of the NPA
1788 shall be interpreted to require obligation or payment of funds in violation of the Anti-Deficiency
1789 Act, Title 31 U.S.C. Part 1341.

1790
1791 **XXI. HANDLING OF SENSITIVE INFORMATION**

1792
1793 In the performance of this Agreement, the non-NASA Parties may have access to U.S.
1794 Government data, the use and dissemination of which must be consistent with federal
1795 government laws, regulations, directives, and policies on handling of sensitive data, including,
1796 but not limited to NASA Procedural Requirement (NPR) 2810.7 *Controlled Unclassified*
1797 *Information*, and NPR 2190.1 *NASA Export Control Program*.

1798
1799 To the extent authorized by federal law (including Section 304 of the NHPA; 36 CFR §
1800 800.11(c)(1); 54 U.S.C. § 307103; Section 9 of the Archaeological Resources Protection Act; 16
1801 U.S.C. § 470hh); and the Freedom of Information Act, 5 U.S.C. 552), NASA, the ACHP, and the
1802 NCSHPO shall withhold from public disclosure information about the nature or location of
1803 cultural resources, including archaeological resources, historic properties, and resources of
1804 religious and cultural significance to Indian Tribes. NASA shall consult with the Secretary of the
1805 Interior pursuant to the ACHP's regulations (at 36 CFR § 800.11(c)(1)) as necessary to withhold
1806 information covered by Section 304 of the NHPA.

1807
1808 **XXII. DURATION**

1809
1810 This Agreement shall remain in full force and effect for 15 years after the date of the last
1811 Signatory's signature. During the 14th year of the NPA's duration, the FPO shall convene a
1812 meeting of the Signatories to consult on an extension of this Agreement. Should the Signatories
1813 agree to extend the duration of the NPA for an additional period, they shall do so per Stipulation
1814 XXIV (Amendments).

1815
1816 **XXIII. DISPUTE RESOLUTION**

1817
1818 Should any Signatory to the NPA object at any time to any actions proposed or the manner in
1819 which the terms of the NPA are implemented, the NASA Agency Official shall consult with such
1820 party to resolve the objection. If the Agency Official determines that such objection cannot be
1821 resolved, the Agency Official will:

1822
1823 A. Forward all documentation relevant to the dispute, including NASA's proposed
1824 resolution, to the ACHP. The ACHP shall provide the Agency Official with its advice on
1825 the resolution of the objection within 30 days of receiving adequate documentation. Prior
1826 to reaching a final decision on the dispute, the Agency Official shall prepare a written
1827 response that takes into account any timely advice or comments regarding the dispute
1828 from the ACHP, Signatories and concurring parties, and provide them with a copy of this
1829 written response. NASA will then proceed according to its final decision.

1830 B. If the ACHP does not provide its advice regarding the dispute within the 30-day
1831 time period, the Agency Official may make a final decision on the dispute and proceed
1832 accordingly. Prior to reaching such a final decision, the Agency Official shall prepare a
1833 written response that takes into account any timely comments regarding the dispute from
1834 the Signatories and concurring parties and provide them and the ACHP with a copy of
1835 such written response.

1836
1837 C. NASA's responsibility to carry out all other actions subject to the terms of the
1838 NPA that are not the subject of the dispute remain unchanged.
1839

1840 **XXIV. AMENDMENTS**

1841
1842 The NPA may be amended when such an amendment is agreed to in writing by all Signatories.
1843 No less than 30 days prior to the execution of the amendment, the FPO shall notify the NPA
1844 Consulting Parties and Center Consulting Parties of the proposed amendment. The amendment
1845 will be effective on the date a copy signed by all of the Signatories is filed with the ACHP, and
1846 the ACHP will distribute a fully executed copy to the Signatories, NPA Consulting Parties, and
1847 Center Consulting Parties.
1848

1849 Revisions to NPA appendices will not require an amendment to the NPA, and may be revised
1850 per the following:
1851

1852 A. Appendices A through G may be revised unilaterally by NASA and will go into
1853 effect when NASA files the revised appendix with the ACHP.
1854

1855 B. Appendices H through L must be revised by consent of the Signatories. If the
1856 Signatories unanimously agree to revise any of Appendices F through L, the revised
1857 appendix will go into effect when NASA files the revision with the ACHP.
1858

1859 C. Appendices M and N may be revised at the Center level, with notification to the
1860 FPO. If the Center CRM and the SHPO agree to revise Appendices M or N, the revised
1861 appendix will go into effect when this agreement is documented in writing.
1862

1863 **XXV. TERMINATION**

1864
1865 If any Signatory to the NPA determines that the terms will not or cannot be carried out, that
1866 party shall immediately consult with the other Signatories to attempt to develop an amendment
1867 per Stipulation XXIV (Amendments). If within 90 calendar days (or another time period agreed to
1868 by all Signatories) an amendment cannot be reached, any Signatory may terminate the NPA
1869 upon written notification to the other Signatories. If the NPA is terminated, NASA shall comply
1870 with the provisions of 36 CFR Part 800, Subpart B, for all Projects that have not already begun
1871 and their effects resolved.
1872

1873 Execution of the NPA by NASA, the ACHP, and the NCSHPO, and implementation of its terms
1874 evidence that NASA has taken into account the effects of the undertakings to which the NPA
1875 applies on historic properties and afforded the ACHP an opportunity to comment.
1876
1877

- 1878 **APPENDIX A Acronyms**
- 1879 **APPENDIX B NASA Centers**
- 1880 **APPENDIX C NASA FCCS Class Codes**
- 1881 **APPENDIX D NHL PA**
- 1882 **APPENDIX E Definitions**
- 1883 **APPENDIX F Indian Tribes Invited to Consult on the NPA**
- 1884 **APPENDIX G NPA Consulting Parties**
- 1885 **APPENDIX H Participating Centers**
- 1886 **APPENDIX I Programmatic Allowances**
- 1887 **APPENDIX J Asset Categorization**
- 1888 **APPENDIX K Individual Project Review Flow Charts**
- 1889 **APPENDIX L NASA Center Annual Report Outline**
- 1890 **APPENDIX M Heritage Zones**
- 1891 **APPENDIX N Center Asset List**
- 1892
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1894 **SIGNATORIES:**

1895

1896

1897

1898

1899 NASA

1900 Date

1901 [insert Agency Official name and title]

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1903

1904

1905

1906 ACHP

1907 Date

1908 [insert name and title]

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1911

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1913 NCSHPO

1914 Date

1915 [insert name and title]

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APPENDIX A – Acronyms

1918		
1919		
1920	ACHP	Advisory Council on Historic Preservation
1921	CCG	Criteria Consideration G
1922	CDF	Character-Defining Feature
1923	CMP	Center Master Plan
1924	CoF	Construction of Facilities
1925	CRM	Cultural Resources Manager
1926	EMD	Environmental Management Division
1927	FCCS	Facility Classification Coding System
1928	FPM	Facilities Program/Project Manager
1929	FPO	Federal Preservation Officer
1930	FRED	Facilities and Real Estate Division
1931	G2G	Gate-to-Gate Survey
1932	HABS	Historic American Buildings Survey
1933	HAER	Historic American Engineering Record
1934	HQ	Headquarters
1935	HTSF	Highly Technical or Scientific Facility
1936	ICRMP	Integrated Cultural Resources Management Plan
1937	LOD	Limit of Disturbance
1938	MOA	Memorandum of Agreement
1939	MOU	Memorandum of Understanding
1940	NASA	National Aeronautics and Space Administration
1941	NATHPO	National Association of Tribal Historic Preservation Officers
1942	NCSHPO	National Conference of State Historic Preservation Officers
1943	NETS	NASA Environmental Tracking System
1944	NHL	National Historic Landmark
1945	NHPA	National Historic Preservation Act
1946	NPA	Nationwide Programmatic Agreement
1947	NPD	NASA Procedural Directive
1948	NPR	NASA Procedural Requirement
1949	NPS	National Park Service
1950	NRHP	National Register of Historic Places
1951	NTHP	National Trust for Historic Preservation
1952	O&M	Operations and Maintenance
1953	OSI	Office of Strategic Infrastructure
1954	RPMS	Real Property Management System
1955	RSF	Resource Significance Framework
1956	SAA	Space Act Agreement

1957	SHPO	State Historic Preservation Officer
1958	TDRSS	Tracking and Data Relay Satellite System

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1960**APPENDIX B – NASA Centers**

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

Acronym	Name	Location
TDRSS-1	Tracking and Data Relay Satellite System (TDRSS)-1 (component facility for GSFC)	New Mexico
TDRSS-2	Tracking and Data Relay Satellite System (TDRSS)-1 (component facility for GSFC)	New Mexico
WFF	Wallops Flight Facility (component facility of GSFC)	Virginia
WSTF	White Sands Test Facility (component facility of JSC)	New Mexico
	Winslow Arizona Downrange Station (component facility of GSFC)	Arizona
WSC	White Sands Complex (component facility of WFF, located within WSTF)	New Mexico

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APPENDIX C – NASA FCCS Class Codes

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

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

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APPENDIX D – NHL PA

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APPENDIX E – Definitions

- 1976
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- 1979
- "NPA Consulting Parties" are the consulting parties to the NPA and include the ACHP, NCSHPO, the NTHP, and the federally recognized Tribes that elected to participate.
- 1980
- 1981
- 1982
- 1983
- 1984
- 1985
- "Assets" are buildings and structures that are NASA-owned real property located within the United States, as recorded in RPMS in Facility Classes 1 through 8, and excluding Facility Class 9 (land) and Facility Class 10 (leasehold improvements). Assets do not include archaeological resources. See *Appendix C – NASA FCCS Class Codes*. Assets also include NASA-owned personal property that has been listed in the NRHP, or formally evaluated and found to be eligible for listing in the NRHP, with NASA and SHPO concurrence.
- 1986
- 1987
- 1988
- "Centers" shall be understood to mean NASA's primary Centers, as well as component facilities and technical and service support centers in the U.S., thus constituting all NASA-owned real property in the U.S. See *Appendix B – NASA Centers*.
- 1989
- 1990
- 1991
- 1992
- 1993
- "Center Consulting Parties" are consulting parties with a demonstrated interest in historic properties at a Participating Center, with which NASA shall consult under the applicable terms of NPA. 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.
- 1994
- 1995
- "Center Consulting Tribes" are the Tribes with a demonstrated interest in historic and cultural resources at a Participating Center, especially as it comes to ground disturbance.
- 1996
- 1997
- 1998
- "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.
- 1999
- 2000
- "Character-Defining Features (CDF)" are those aspects—materially and visually—that convey the significance of a resource, including both workmanship and materials.
- 2001
- 2002
- 2003
- 2004
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- 2006
- "Construction of Facilities (CoF) Project Life Cycle" is a concept used by NASA CoF to describe all phases of project execution, including the project formulation phases (including planning and development), final design, implementation (including construction, commissioning, and activation), maintenance and operation, decommissioning, and disposal/demolition. Additional information on this concept is found in NASA Procedural Requirement (NPR) 8820.2H *Facility Project Requirements*.
- 2007
- 2008
- 2009
- "Emergency Situation" shall refer to a situation that represents an imminent threat to public health or safety, or creates a hazardous condition. Emergency Situations shall also include formal declarations of emergency by government officials at the federal, state, or local level.
- 2010
- 2011
- "Envelope" refers to all Asset components that separate the interior from the exterior, including exterior walls, foundations, roof, windows, and doors.
- 2012
- 2013
- 2014
- 2015
- "Facility Classification Coding System (FCCS)" is a hierarchical scheme, represented by numerical codes, of real property types and functions that serves as the framework for identifying, categorizing, and analyzing NASA's inventory of land and facilities. See *Appendix C – NASA FCCS Class Codes*.
- 2016
- "Footprint" is the ground surface occupied by an Asset.
- 2017
- 2018
- "Heritage Zone" is a management overlay that has been established by the NPA to acknowledge and provide a more robust level of Section 106 consideration for discrete

- 2019 areas that exhibit a shared design, architectural style, or cohesive theme that is distinct from
 2020 the predominant HTSF utilitarian character of NASA Centers. *See Appendix M – Heritage*
 2021 *Zones.*
- 2022 • “Historical Integrity” is the ability of an Asset to convey the historical associations or
 2023 attributes for which it is significant.
- 2024 • “HTSF” means highly technical or scientific facility as described in 1991 ACHP publication
 2025 *Balancing Historic Preservation Needs with the Operations of Highly Technical or Scientific*
 2026 *Facilities.*
- 2027 • “In-kind” means closely matching the design, color, surface texture, reflectivity, finish,
 2028 details, and other qualities of the material or element to be replaced.
- 2029 • “Limit of Disturbance (LOD)” is the area, both horizontally and vertically, within which Project
 2030 activities may physically disturb earth.
- 2031 • “Maintenance” is the recurring day-to-day work required to preserve facilities (buildings,
 2032 structures, grounds, utility systems, and collateral equipment) in such condition that they
 2033 may be used for their designated purpose over an intended service life. Maintenance
 2034 minimizes or corrects wear and tear and, thereby, forestalls major repairs. Facilities
 2035 maintenance includes preventive maintenance, predictive testing and inspection, grounds
 2036 care, programmed maintenance, repair, trouble calls, replacement of obsolete items, and
 2037 service requests. Facilities maintenance does not include new work, work on noncollateral
 2038 equipment, or maintenance performed in the Central Plant by plant operations personnel.
 2039 See NASA Procedural Directive (NPD) 8831.1E *Maintenance and Operations of Institutional*
 2040 *and Program Facilities and Related Equipment.*
- 2041 • “Management Categories” are a management tool used in the NPA that categorizes NASA
 2042 Assets into three different buckets groupings on their historical significance and physical
 2043 integrity.
- 2044 • “NASA” shall be understood to mean the agency currently known as NASA as well as its
 2045 predecessor agency, the National Advisory Committee for Aeronautics (NACA).
- 2046 • “NASA Environmental Tracking System (NETS)” is a database maintained by Center CRMs
 2047 and is the primary Asset database for NASA cultural resources.
- 2048 • “Participating Centers” shall mean NASA Centers to whom the NPA applies—namely those
 2049 that do not have an active Center-wide programmatic agreement. *See Appendix H –*
 2050 *Participating Centers.*
- 2051 • “Project” shall mean “undertaking” as defined in 36 CFR Part 800.
- 2052 • “Real Property Management System (RPMS)” is NASA’s comprehensive inventory of NASA
 2053 assets maintained by the Office of Strategic Infrastructure’s (OSI) Facilities and Real Estate
 2054 Division (FRED).
- 2055 • “Repair” is facility work required to restore a facility or component to a condition substantially
 2056 equivalent to its originally intended and designed capacity, efficiency, or capability. It
 2057 includes the substantially equivalent replacements of utility systems and collateral
 2058 equipment necessitated by incipient or actual breakdown. It includes restoration of function,
 2059 usually after failure. See NPD 8831.1E *Maintenance and Operations of Institutional and*
 2060 *Program Facilities and Related Equipment.*

APPENDIX F – Indian Tribes Invited to Consult on the NPA

2062

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

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

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APPENDIX G – NPA Consulting Parties

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National Association of Tribal Historic Preservation Officers (NATHPO)

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National Trust for Historic Preservation (NTHP)

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APPENDIX H – Participating Centers

Acronym	Name	Location
ARC	Ames Research Center	California
AFRC	Armstrong Flight Research Center	California
ATF	Armstrong Test Facility (component facility of GRC)	Ohio
GRC	Glenn Research Center	Ohio
GSFC	Goddard Space Flight Center	Maryland
GDSCC	Goldstone Deep Space Communication Complex (component facility of JPL)	California
	Hawaii Spaceflight Tracking/Data Network Stations (component facility of GSFC)	Hawaii
JPL	Jet Propulsion Laboratory	California
JSC	Johnson Space Center	Texas
KSC	Kennedy Space Center	Florida
MAF	Michoud Assembly Facility (component facility of MSFC)	Louisiana
SSC	Stennis Space Center	Mississippi
	Table Mountain Observatory (component facility of JPL)	California
TDRSS-1	Tracking and Data Relay Satellite System (TDRSS)-1 (component facility fo GSFC)	New Mexico
TDRSS-2	Tracking and Data Relay Satellite System (TDRSS)-1 (component facility fo GSFC)	New Mexico
WFF	Wallops Flight Facility (component facility of GSFC)	Virginia
WSTF	White Sands Test Facility (component facility of JSC)	New Mexico
WSC	White Sands Complex (component facility of WFF, located within WSTF)	New Mexico

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At the execution of this NPA, the following Center Programmatic Agreements remained active:

Name	Execution	Scope	Expiration
NHL PA	1989	Specified NHLs	N/A
LaRC PA	2010; extended 2019	Facilities, infrastructure, and sites at LaRC; and Archaeological sites	2024
MSFC PA	2010; extended 2020	NASA buildings and structures, listed in or eligible for listing in the NRHP	2030

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APPENDIX I – Programmatic Allowances

The NASA CRM shall evaluate the undertaking to determine if it qualifies for exclusion. NASA may undertake these activities without Project-specific consultation. The allowances reflect the HTSF character and function of NASA Centers, and the need to modify HTSF to keep such Assets in active use. If there are any adverse effects from the allowances, they will be minimal, and will be resolved through Stipulation XI.A (Programmatic Mitigation) prepared pursuant to this NPA.

Programmatic Allowances Outside Heritage Zones

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

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- 2127 • Standalone New Construction, when either of the following apply:
- 2128 ○ Area has been surveyed with no eligible archaeological resources; or
- 2129 ○ No archaeological survey is required per Archaeological Management Plan
- 2130 prepared under Stipulation III.B.3 (Development of Archaeology Management
- 2131 Plan).
- 2132

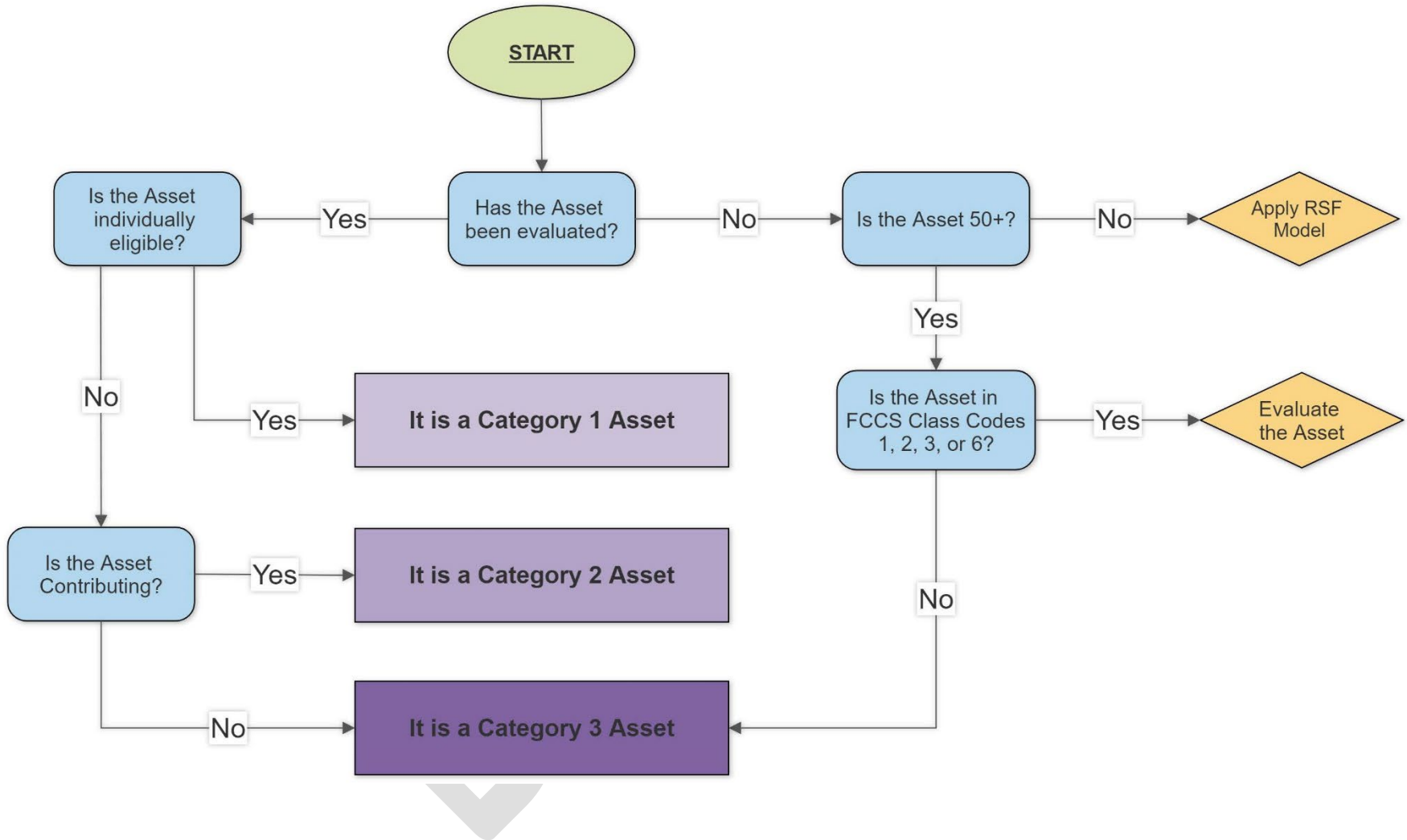
2133 **Programmatic Allowances Inside Heritage Zones**

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- 2135 • For all Asset categories:
- 2136 ○ Routine repair and maintenance when any one of the following conditions
- 2137 applies:
- 2138 ■ All work is within existing footprint; or
- 2139 ■ Area has been surveyed with no eligible archaeological resources; and/or
- 2140 ■ No archaeological survey is required per Archaeological Management
- 2141 Plan prepared under Stipulation IV.B.3 (Development of Archaeology
- 2142 Management Plan).
- 2143 ○ Interior modifications
- 2144 ○ Exterior modifications within existing footprint if in-kind or conforming to SHPO-
- 2145 approved design guidelines
- 2146 ○ Mothballing
- 2147 ○ Transfer to federal agency
- 2148 ○ Outgrants where use-agreement does not allow for exterior modification (i.e., use
- 2149 of interior spaces)
- 2150 ○ Any other ground disturbance (not previously mentioned), where there is no
- 2151 above ground component, and when any one of the following conditions applies:
- 2152 ■ All work is within Asset footprint; or
- 2153 ■ Area has been surveyed with no eligible archaeological resources; or
- 2154 ■ No archaeological survey is required per Archaeological Management
- 2155 Plan prepared under Stipulation IV.B.3 (Development of Archaeology
- 2156 Management Plan).
- 2157
- 2158 • For Category 3 Assets (in addition to the above):
- 2159 ○ Demolition, when any one of the following conditions applies:
- 2160 ■ All work is within Asset footprint; or
- 2161 ■ Area has been surveyed with no eligible archaeological resources; or
- 2162 ■ No archaeological survey is required per Archaeological Management
- 2163 Plan prepared under Stipulation IV.B.3 (Development of Archaeology
- 2164 Management Plan).

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APPENDIX J – Asset Categorization

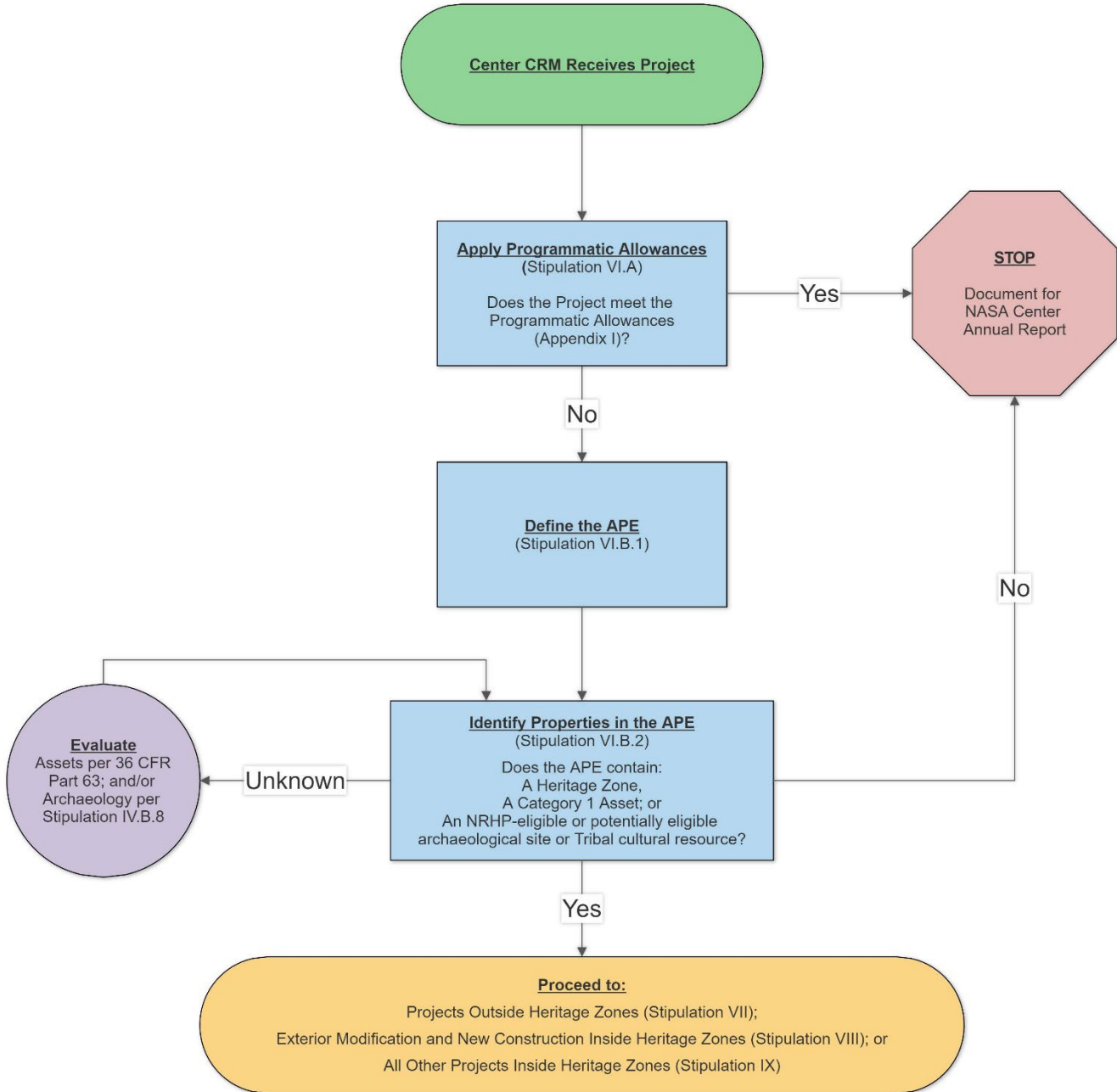


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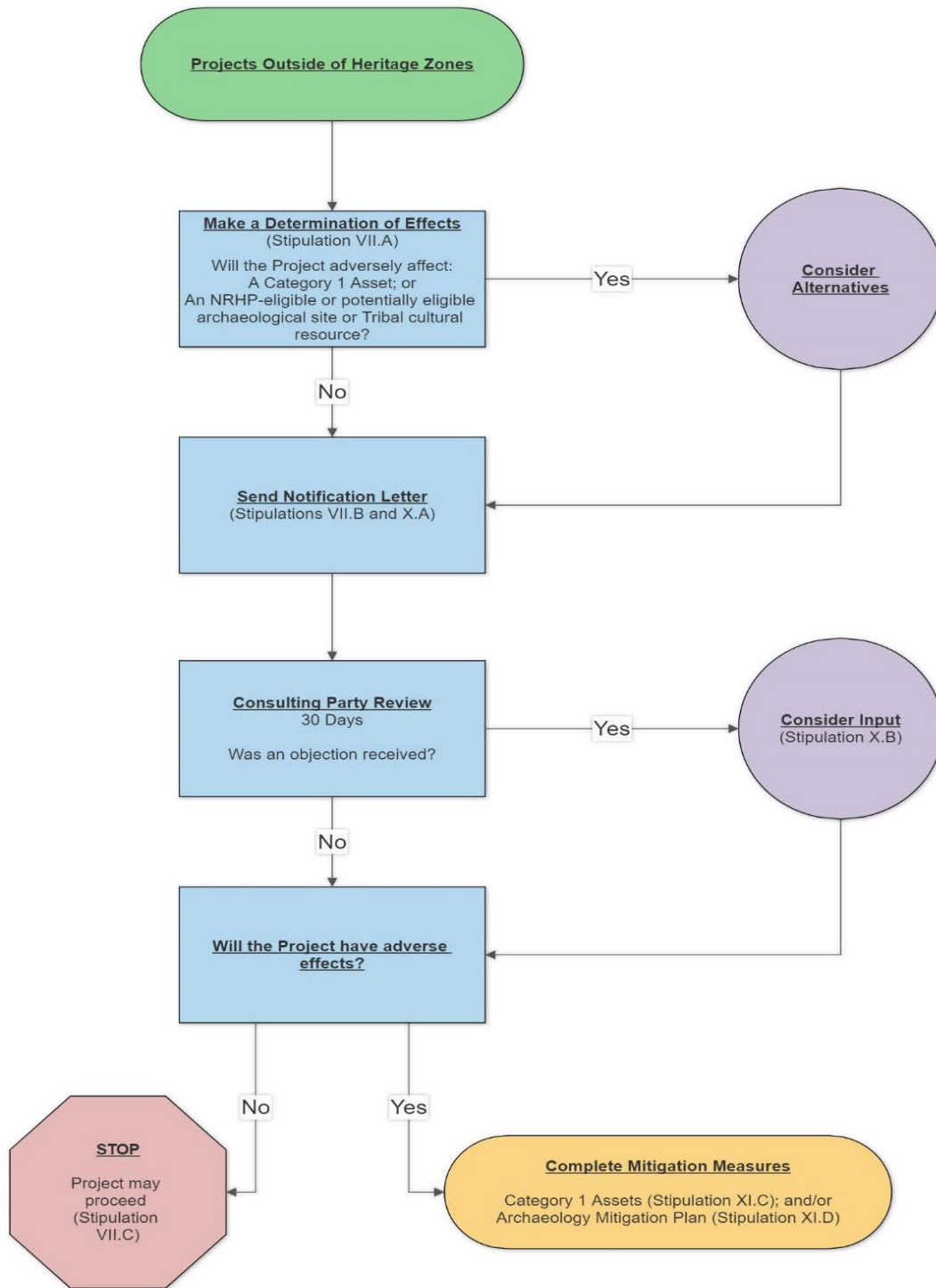
APPENDIX K – Individual Project Review Flow Charts

Stipulation VI. Individual Project Review – Initial Review



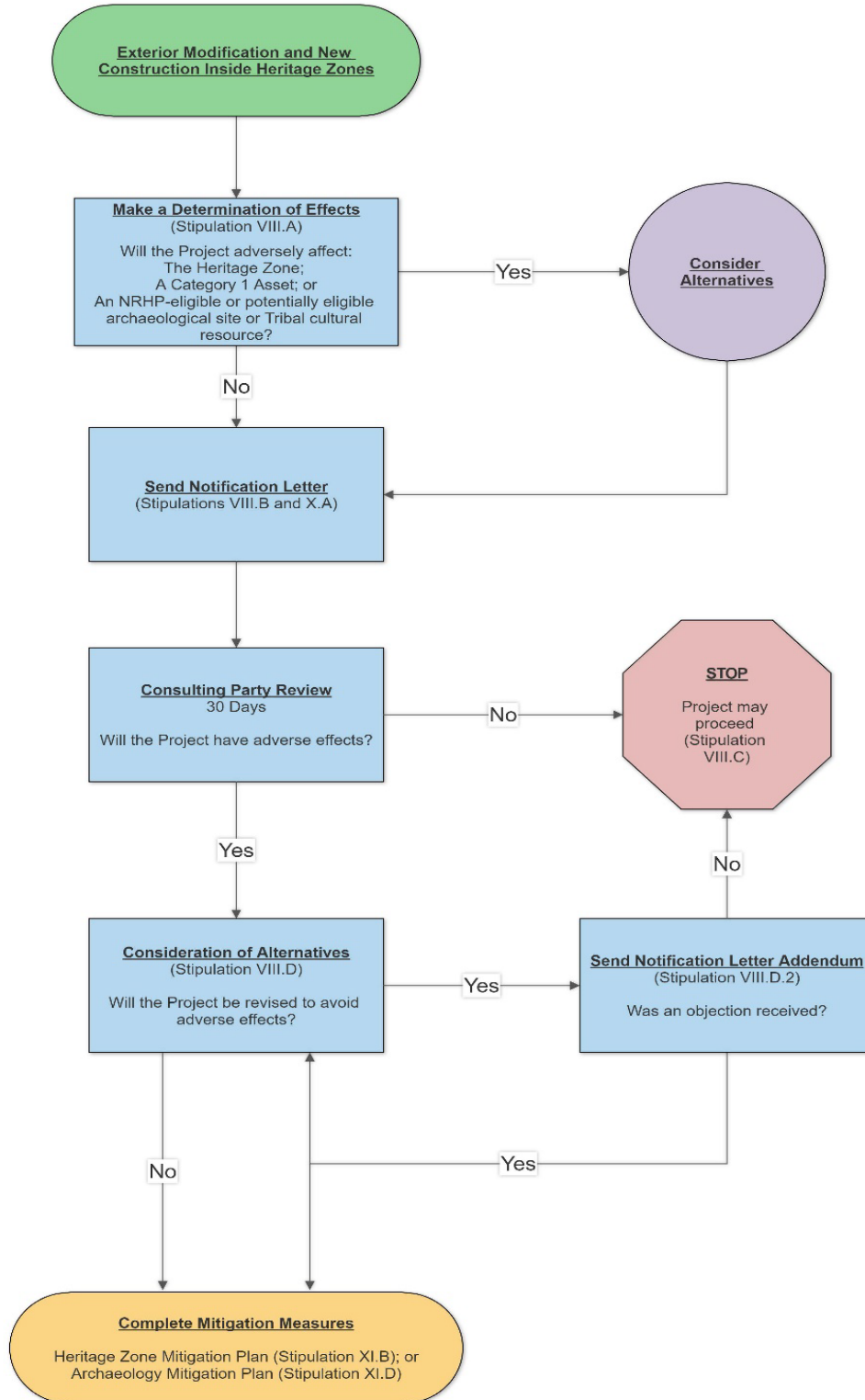
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2175 Stipulation VII. Individual Project Review – Projects Outside of Heritage Zones
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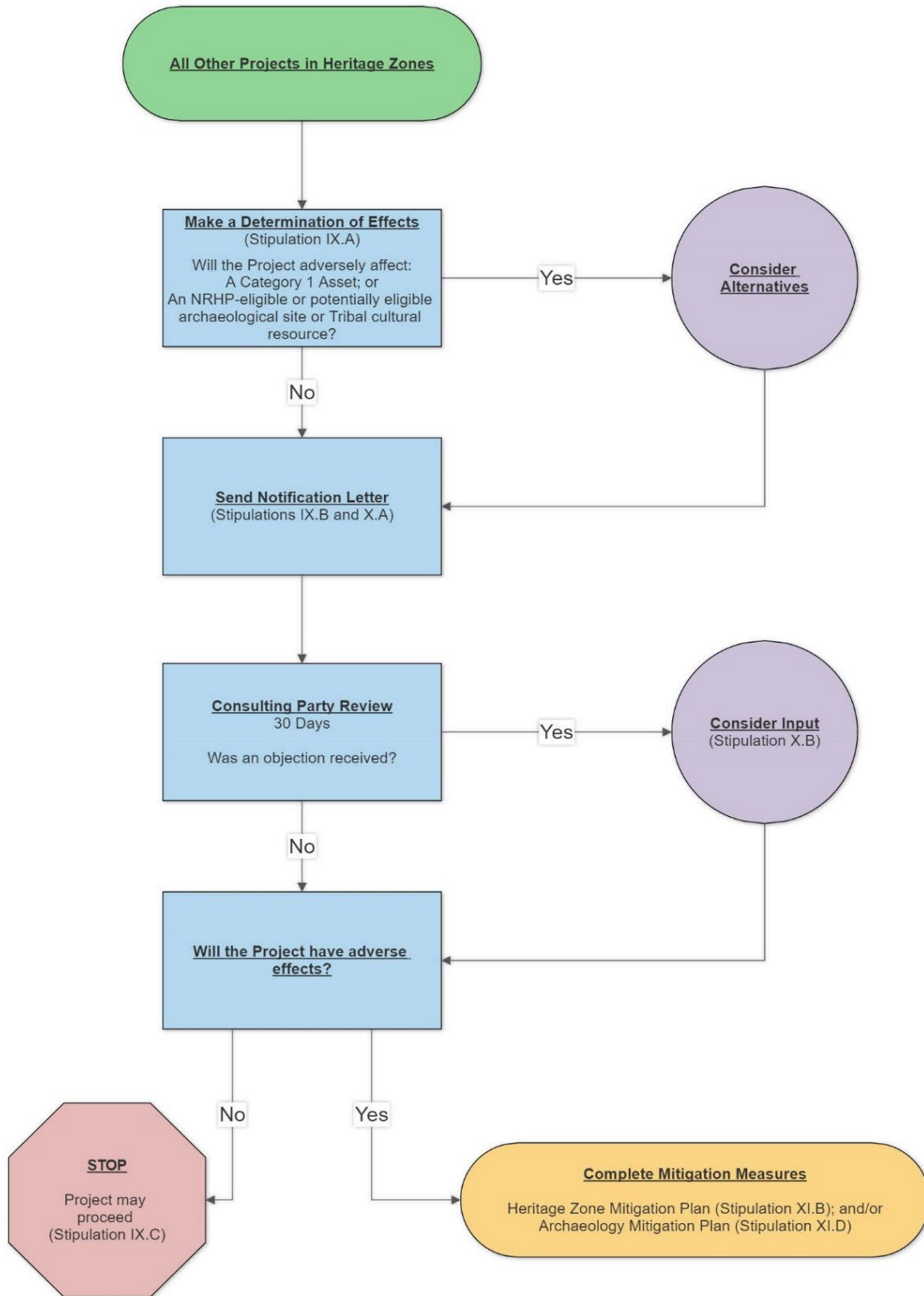
2177

2178 Stipulation VIII. Individual Project Review – Exterior Modification and New Construction
 2179 Inside Heritage Zones
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2182 Stipulation IX. Individual Project Review – All Other Projects Inside Heritage Zones
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APPENDIX L – NASA Center Annual Report Outline

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APPENDIX M – Heritage Zones

A Heritage Zone is a management overlay that has been established by the NPA to acknowledge and provide a more robust level of Section 106 consideration for discrete areas that exhibit a shared design, architectural style, or cohesive theme that is distinct from the predominant HTSF utilitarian character of NASA Centers. Heritage Zones may be found within the administrative core of a NASA Center, or they may be areas whose construction predates NASA. A Heritage Zone may be located within a NRHP-listed or -eligible historic district significant under Criterion C for architecture, landscape architecture, or planning. NASA has determined that undertakings within Heritage Zones warrant greater consideration due to a higher potential for visual, indirect, or cumulative adverse effects.

A Heritage Zone will possess all or some of the following characteristics:

- It conveys a distinct sense of time and place through intact historic setting, design, and feeling;
- It has a cohesive design, such as use of similar materials, forms, or plans, and/or represents a collective design intent;
- It is comprised of built resources, landscape, open space, and viewsheds; and
- It is recognized as having symbolic importance and/or broad intangible value to NASA or the public.

[Reserved for Maps of Heritage Zones]

2214
2215
2216

[Reserved]

APPENDIX N – Center Asset List

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