



Federal Aviation Administration

Memorandum

Date: AUG 02 2016

To: All Airport Regional Division Managers

From: Michael J. O'Donnell, Director, Airport Safety and Standards, AAS-1

Subject: FAA Review of Construction Plans and Specifications for AIP funded Projects

Background:

This Memorandum provides information to Regional and Airports District Office (ADO) Program Managers (PMs) and Engineers about the FAA review of construction plans and specifications (P&S) for Airport Improvement Program (AIP) funded projects.

Summary of Changes:

The schedule for implementation of the Plans & Specifications (P&S) review was issued In December 2014. After going through one full year of P&S review and following extensive discussions at management level the following changes are being incorporated into the P&S Implementation Plan:

1. Clarification in memo about reviews for phased projects;
2. Appendix 1 has been expanded to more closely match the SOAR ODO/ACIP codes; and
3. Forms in Appendix 2 & Appendix 3 have been modified to include a block for name of whom completed the review.

Review of Plans and Specifications:

Effective with FY 16 P&S for AIP funded projects are to be reviewed in accordance with the Appendix 1 Review Matrix. The FAA review of P&S should be complete at the 90% design stage to capture the near-final design state before the project goes to bid and to allow enough time for sponsors to incorporate any necessary changes. For projects that remain broken into a Phase I design and Phase II construction the dollar thresholds for level of review are relative to a total project. On larger and/or more complex projects additional reviews may be necessary before 90%.

Prior to review of the P&S, all projects (except equipment projects), will need to have sponsors submit:

- Consultant Scope of Work;
- Engineering Design Report; and
- Construction Safety and Phasing Plan.

The objectives of the P&S review by the FAA are to:

- Verify conformance to the approved scope of work;
- Verify the work meets AIP eligibility requirements;
- Verify conformance to FAA design and construction standards (including terms that are either deficient or exceed design standards);
- Verify that required Federal terms are included; and
- Verify that Construction Safety and Phasing Plan developed are in conformance with FAA standards.

Review by the FAA must not be construed as a quality control check for the Engineer of Record, or in any other respect support of the technical engineering calculations. Also, nothing in this review (including failure by FAA to identify a nonstandard condition) may be construed as an official approval of a Modification of Standards (MOS). All MOS must be addressed in accordance with Order 5100.1, Modifications to Agency Airport Design, Construction and Equipment Standards. The FAA's review and comments do not in any way relieve the Engineer of Record of their professional duty to ensure the safety, constructability, and/or performance requirements of the plans and specifications. At the same time, the FAA's comments must not be construed as giving technical direction to the Engineer of Record. Rather, the FAA provides its comments to the Airport Sponsor in connection with the requested AIP grant. Even if the FAA's reviewer is a licensed Professional Engineer, the FAA's reviewer should not in any way cite those credentials in providing their comments

Review Levels:

There are three levels of plans and specifications (P&S) review: sponsor certification, general and full. The PMs and/or Engineers who perform the review of the P&S will complete and document the review as required by the level of review being completed. Appendix 1 AIP Construction Plans and Specifications, Review Matrix provides guidance as to what level of review is required. The Review Matrix is based upon the type of project, type of airport, and total estimated construction (or equipment) costs. A PM or Engineer may choose to review the sponsor's P&S at a higher level of review than shown in the Appendix 1 Review Matrix. For example a project for runway incursion mitigation (RIM) might be under the threshold for review but due to the nature of the project a full review may be appropriate.

The three levels of review are designated as:

- (1) No Review (Sponsor Certification): For No Review, FAA acceptance of P&S is based upon submittal of a satisfactory executed sponsor certification per FAA Order 5100.38
- (2) General Review: For General Review, FAA acceptance of P&S is based upon a satisfactory executed sponsor certification and a cursory review by the FAA of the P&S. See Appendix 2, Construction Plans and Specifications "General Review Guide".
- (3) Full Review. For Full Review, FAA acceptance of P&S is based upon a satisfactory executed sponsor certification and a more comprehensive review by FAA of the P&S. See Appendix 3, Construction Plans and Specifications "Full Review Guide". A Full Review should be considered for: high risk sponsors, for projects where the consultant is not familiar with FAA design standards or for consultants where the FAA has experienced previous issues, or when new technologies are being utilized.

APPENDICES:

There are four Appendices attached to this Memo:

- Appendix 1. AIP Construction Plans and Specifications "Review Matrix"
- Appendix 2. Construction Plans and Specifications "General Review Guide"
- Appendix 3. Construction Plans and Specifications "Full Review Guide"
- Appendix 4. PM/Engineer AIP Construction Plans and Specification, Review Record

If you have any questions, please contact Doug Johnson at (202) 267-4689, or by e-mail at Doug.Johnson@faa.gov.

**APPENDIX 1
AIP CONSTRUCTION PLANS AND SPECIFICATIONS REVIEW MATRIX**

PRIMARY and PART 139 AIRPORTS

PRIMARY and PART 139 AIRPORTS						
NPIAS-ACIP Standard Descriptions and ACIP Codes				Acceptance of Plans & Specs Review Level		
PROJECT DESCRIPTION	ACIP Codes			ACCEPTANCE OF PLANS & SPECS BASED ON		
	Purpose	Component	Type	139/Primary < \$1M*	139/Primary > \$1M*	139/Primary > \$5M*
APRON (AP)	AP					
Construct {name} Apron	CA	AP	CO	General	General	Full
Expand {name} Apron	CA	AP	EX	General	General	Full
Construct {name} Apron (environmental mitigation)	EN	AP	CO	General	General	Full
Construct Deicing Pad	ST	AP	DI	General	General	Full
Rehabilitate {name} Apron	RE	AP	IM	Sponsor Cert	General	Full
Construct {name} Apron	ST	AP	CO	General	General	Full
Expand/Strengthen {name} Apron	ST	AP	IM	General	General	Full
Install {name} Apron Lighting	ST	AP	LI	General	General	Full
BUILDING (BD)	BD					
Construct/Expand/Improve/Modify/Rehabilitate ARFF Building [Pt. 139 only]	SA	BD	EX	Sponsor Cert	General	General
Construct/Expand/Improve/Modify/Rehabilitate {describe} Building	ST	BD	MS	Sponsor Cert	General	General
Construct/Expand/Improve/Modify/Rehab <Sand/Chem Storage/Snow Removal Equip> Bldg	ST	BD	SN	Sponsor Cert	General	General
EQUIPMENT (EQ)	EQ					
VALE Infrastructure or Vehicle	EN	EQ	MS	Sponsor Cert	General	General
Acquire Interactive Training System	OT	EQ	MS	Sponsor Cert	General	General
Acquire ARFF Vehicle or ARFF Safety Equipment [required by Part 139]	SA	EQ	RF	General	General	General
Install Perimeter or Security Fencing or Security Enhancements or Acquire Security Equip [Part 139 or 107]	SA	EQ	SE	General	General	General
Acquire Aircraft Deicing Equipment	ST	EQ	DI	Sponsor Cert	General	General
Acquire/Install/Rehabilitate Emergency Generator	ST	EQ	LI	Sponsor Cert	General	General
Acquire Equipment <Sweepers/Avian Radar/FLIRS/FOD Detection/ etc.>	ST	EQ	MS	Sponsor Cert	General	General
Install Perimeter Fencing {e.g., access control} [not Part 107]	ST	EQ	SE	Sponsor Cert	General	General
Acquire <Snow Removal Equipment/Urea Truck/etc.>	ST	EQ	SN	Sponsor Cert	General	General
Acquire Friction Measuring Equipment	ST	EQ	SR	Sponsor Cert	General	General
Install Weather Reporting Equipment {describe, e.g., AWOS }	ST	EQ	WX	Sponsor Cert	General	General
STATE BLOCK GRANT PROGRAM	GP					
Non-Primary Development projects in state block grant program	SB	GP	PP	N/A	N/A	N/A
GROUND TRANSPORTATION (GT)	GT					
Construct/Expand/Improve/Modify/Rehabilitate Access Road	CA	GT	AC	Sponsor Cert	Sponsor Cert	Sponsor Cert
Construct/Expand/Improve/Modify/Rehabilitate <Inter/Intra> Terminal People Mover	CA	GT	PM	Sponsor Cert	Sponsor Cert	Sponsor Cert
Construct/Expand/Improve/Modify/Rehabilitate Access Rail	CA	GT	RL	Sponsor Cert	Sponsor Cert	Sponsor Cert
Construct/Expand/Improve/Modify/Rehabilitate Access Road	OT	GT	AC	Sponsor Cert	Sponsor Cert	Sponsor Cert
Construct/Expand/Improve/Modify/Rehabilitate Access Rail	OT	GT	RL	Sponsor Cert	Sponsor Cert	Sponsor Cert
Construct/Expand/Improve/Modify/Rehabilitate <Perimeter> Service Road	OT	GT	SV	Sponsor Cert	General	General

PRIMARY and PART 139 AIRPORTS						
NPIAS-ACIP Standard Descriptions and ACIP Codes				Acceptance of Plans & Specs Review Level		
PROJECT DESCRIPTION	ACIP Codes			ACCEPTANCE OF PLANS & SPECS BASED ON		
	Purpose	Component	Type	139/Primary < \$1M*	139/Primary > \$1M*	139/Primary > \$5M*
HELIPORT (HE)	HE					
Construct/Expand/Improve/Modify/Rehabilitate Helipad/Heliport	CA	HE	CO	Sponsor Cert	Sponsor Cert	General
Construct/Expand/Improve/Modify/Rehabilitate Helipad/Heliport	ST	HE	CO	Sponsor Cert	Sponsor Cert	General
HOMES (HO)	HO					
Noise Mitigation measures for residences outside 65 DNL	EN	HO	60	Sponsor Cert	Sponsor Cert	Sponsor Cert
Noise Mitigation measures for residences within 65 - 69 DNL	EN	HO	65	Sponsor Cert	Sponsor Cert	Sponsor Cert
Noise Mitigation measures for residences within 70 - 74 DNL	EN	HO	70	Sponsor Cert	Sponsor Cert	Sponsor Cert
Noise Mitigation measures for residences within 75 DNL	EN	HO	75	Sponsor Cert	Sponsor Cert	Sponsor Cert
LAND (LA)	LA					
Acquire easement for noise compatibility/relocation {# relocated} outside 65 DNL	EN	LA	60	N/A	N/A	N/A
Acquire land for noise compatibility/relocation {# relocated} outside 65 DNL	EN	LA	60	N/A	N/A	N/A
Acquire easement for noise compatibility/relocation {# relocated} within 65 - 69 DNL	EN	LA	65	N/A	N/A	N/A
Acquire land for noise compatibility/relocation {# relocated} within 65 - 69 DNL	EN	LA	65	N/A	N/A	N/A
Acquire easement for noise compatibility/relocation {# relocated} within 70 - 74 DNL	EN	LA	70	N/A	N/A	N/A
Acquire land for noise compatibility/relocation {# relocated} within 70 - 74 DNL	EN	LA	70	N/A	N/A	N/A
Acquire easement for noise compatibility/relocation {# relocated} within 75 DNL	EN	LA	75	N/A	N/A	N/A
Acquire land for noise compatibility/relocation {# relocated} within 75 DNL	EN	LA	75	N/A	N/A	N/A
Acquire easement for development/relocation {list parcels and/or # relocated}	ST	LA	DV	N/A	N/A	N/A
Acquire land for development/relocation {list parcels and/or # relocated}	ST	LA	DV	N/A	N/A	N/A
Acquire miscellaneous land {describe, e.g., land for outer marker, relocate road}	ST	LA	MS	N/A	N/A	N/A
Acquire easement for Runway {describe} approach(es) {list parcels and/or # relocated}	ST	LA	SZ	N/A	N/A	N/A
Acquire land for Runway {describe} approach(es) {list parcels and/or # relocated}	ST	LA	SZ	N/A	N/A	N/A
NEW AIRPORT (NA)	NA					
Construct New Airport	CA	NA	CO	n/a	n/a	Full
OTHER (OT)	OT					
Construct Deicing Containment Facility	EN	OT	DI	Sponsor Cert	Sponsor Cert	General
Construct Deicing Containment Facility	ST	OT	DI	Sponsor Cert	Sponsor Cert	General
Noise Mitigation Measures [miscellaneous]	EN	OT	MS	Sponsor Cert	Sponsor Cert	General
Environmental Mitigation	EN	OT	MT	Sponsor Cert	Sponsor Cert	General
Install Noise Monitoring System/Equipment	EN	OT	NO	Sponsor Cert	Sponsor Cert	General
Construct/Improve/Repair <Fuel Farm/Utilities> [including MAP]	OT	OT	FF	Sponsor Cert	Sponsor Cert	General
Construct/Rehabilitate Parking Lot [non revenue producing-non hub]	OT	OT	PA	Sponsor Cert	Sponsor Cert	General
Construct Wash Rack	OT	OT	WR	Sponsor Cert	Sponsor Cert	General
Light/Mark/Remove Obstructions {list location} [hazard only e.g., approaches]	SA	OT	OB	Sponsor Cert	Sponsor Cert	General
Install Guidance Signs [required by Part 139]	SA	OT	SG	General	Full	Full
Install Guidance Signs [non Part 139]	ST	OT	SG	General	Full	Full
Install Runway Incursion Caution Bars and/or Markings [required by Part 139] {SMGCS}	SA	OT	SG	General	Full	Full
Install Runway Incursion Caution Bars and/or Markings [non Part 139 CS] {SMGCS}	SP	OT	SG	General	Full	Full
Install/Rehabilitate Airport Beacons [required by Part 139]	SA	OT	VI	Sponsor Cert	Sponsor Cert	General

PRIMARY and PART 139 AIRPORTS

NPIAS-ACIP Standard Descriptions and ACIP Codes				Acceptance of Plans & Specs Review Level		
PROJECT DESCRIPTION	ACIP Codes			ACCEPTANCE OF PLANS & SPECS BASED ON		
	Purpose	Component	Type	139/Primary < \$1M*	139/Primary > \$1M*	139/Primary > \$5M*
Install Infrastructure/Remove Obstructions to Support RNAV Approach	SP	OT	VI	Sponsor Cert	Sponsor Cert	General
Improve Airport Drainage [Improve TSA]	ST	OT	IM	General	Full	Full
Improve Airport Erosion Control	ST	OT	IM	General	General	Full
Improve Airport Miscellaneous Improvements	ST	OT	IM	General	General	Full
Install Miscellaneous <NAVAIDS/Approach Aids> {seg, circle, beacon, etc., Not ALS}	SP/ST	OT	IN	General	General	Full
Install Apron Flood or Gate Position Lighting	ST	OT	LI	Sponsor Cert	Sponsor Cert	General
Construct/Acquire Mobile ARFF Training Facility	ST	OT	RF	Sponsor Cert	Sponsor Cert	General
PUBLIC BUILDING (PB)	PB					
Noise Mitigation measures for public buildings outside 65 DNL	EN	PB	60	Sponsor Cert	Sponsor Cert	Sponsor Cert
Noise Mitigation measures for public buildings within 65 - 69 DNL	EN	PB	65	Sponsor Cert	Sponsor Cert	Sponsor Cert
Noise Mitigation measures for public buildings within 70 - 74 DNL	EN	PB	70	Sponsor Cert	Sponsor Cert	Sponsor Cert
Noise Mitigation measures for public buildings within 75 DNL	EN	PB	75	Sponsor Cert	Sponsor Cert	Sponsor Cert
PLANNING (PL)	PL					
Conduct Airport Energy Efficiency Assessment	EN	PL	ES	N/A	N/A	N/A
Conduct Energy Efficiency Assessment	EN	PL	ES	N/A	N/A	N/A
Identify the airport's environmental footprint	EN	PL	ES	N/A	N/A	N/A
Sustainable Management Plan	EN	PL	ES	N/A	N/A	N/A
Sustainable Master Plan	EN	PL	ES	N/A	N/A	N/A
Conduct <Environmental Assessment/Environmental Impact Statement/Feasibility> <study/update>	EN	PL	MA	N/A	N/A	N/A
Conduct Noise Compatibility Plan study/update {Part 150}	EN	PL	NO	N/A	N/A	N/A
Conduct Environmental Study for Flight Procedure Approved in Part 150	EN	PL	NO	N/A	N/A	N/A
Conduct Ground Transportation/Rail Study	PL	PL	AC	N/A	N/A	N/A
Collect Airport Data for Airports GIS	PL	PL	GI	N/A	N/A	N/A
Conduct Airport Master Plan Study {ALP, EA, etc.}>	PL	PL	MA	N/A	N/A	N/A
Update Airport Master Plan Study {ALP, EA, etc.}>	PL	PL	MA	N/A	N/A	N/A
Conduct Metropolitan System Plan Study	PL	PL	ME	N/A	N/A	N/A
Update Metropolitan System Plan Study	PL	PL	ME	N/A	N/A	N/A
Conduct {name} (e.g., Pavement Maintenance Plan, PCI, NPDES, etc.) Study	PL	PL	MS	N/A	N/A	N/A
Update {name} (e.g., Pavement Maintenance Plan, PCI, NPDES, etc.) Study	PL	PL	MS	N/A	N/A	N/A
Safety Management System (SMS) Program	PL	PL	MS	N/A	N/A	N/A
Conduct State System Plan Study	PL	PL	ST	N/A	N/A	N/A
Update State System Plan Study	PL	PL	ST	N/A	N/A	N/A
Conduct Aeronautical Survey for WAAS Approach	PL	PL	VI	N/A	N/A	N/A
Conduct Vertiport/Tiltrotor Plan	PL	PL	VT	N/A	N/A	N/A
Conduct Wildlife Hazard Assessments	PL	PL	WH	N/A	N/A	N/A
RUNWAY (RW)	RW					
Construct Runway {name}	CA	RW	CO	General	Full	Full
Extend Runway {name}	CA	RW	EX	General	Full	Full
Construct Runway {name} (environmental mitigation)	EN	RW	CO	General	Full	Full
Rehabilitate Runway {name}	RE	RW	IM	General	General	Full
Rehabilitate Runway <Lighting/Electrical Vault>	RE	RW	LI	General	General	Full
Install Runway Lighting (HIRL, MIRL) [Required by Part 139]	SA	RW	LI	General	General	Full

PRIMARY and PART 139 AIRPORTS						
NPIAS-ACIP Standard Descriptions and ACIP Codes				Acceptance of Plans & Specs Review Level		
PROJECT DESCRIPTION	ACIP Codes			ACCEPTANCE OF PLANS & SPECS BASED ON		
	Purpose	Component	Type	139/Primary < \$1M*	139/Primary > \$1M*	139/Primary > \$5M*
Construct/Improve/Extend Runway {name} Safety Area [Part 139]	SA	RW	SF	General	Full	Full
Groove Runway {name}	SP	RW	FR	General	General	Full
Install Runway Distance-to-Go Signs	SP	RW	SG	General	General	Full
Construct Runway {name} [includes relocation]	ST	RW	CO	General	Full	Full
Extend/Strengthen/Widen Runway {name} [to meet standards]	ST	RW	IM	General	Full	Full
Install <full/partial> Instrument Approach Aid {describe, e.g., install localizer}	ST	RW	IN	General	General	Full
Install Runway Lighting (HIRL, MIRL, TDZ, LAHSO or CL)	ST	RW	LI	General	General	Full
Construct/Extend/Improve Runway {name} Safety Area	ST	RW	SF	General	Full	Full
Install Runway {name} Sensors	ST	RW	SR	General	General	Full
Install Runway {name} <vertical/visual> Guidance System [PAPI/VASI/REIL/ALS/etc.]	ST/SP	RW	VI	General	General	Full
SEAPLANE BASE (SB)	SB					
Construct/Improve/Modify Seaplane Base (e.g. ramp/floats)	CA	SB	CO	Sponsor Cert	Sponsor Cert	Sponsor Cert
Rehabilitate Seaplane Base <ramp/floats>	RE	SB	IM	Sponsor Cert	Sponsor Cert	Sponsor Cert
TERMINAL DEVELOPMENT (TE)	TE					
Construct/Expand/Improve/Modify/Rehabilitate Terminal Building	CA	TE	CO	Sponsor Cert	General	General
Acquire Handicap Passenger Lift Device	ST	TE	MS	Sponsor Cert	Sponsor Cert	Sponsor Cert
TAXIWAY (TW)	TW					
Construct Taxiway {name}	CA	TW	CO	General	General	Full
Extend Taxiway	CA	TW	EX	General	General	Full
Construct Taxiway {name} (environmental mitigation)	EN	TW	CO	General	General	Full
Rehabilitate Taxiway	RE	TW	IM	General	General	Full
Rehabilitate Taxiway {name} Lighting	RE	TW	LI	General	General	Full
Install Taxiway {name} Lighting (MITL) [Required by Part 139]	SA	TW	LI	General	General	Full
Install Taxiway {name} Lighting (MITL) [non Part 139] (e.g., SMGCS, reflectors, MITL)	SP/ST	TW	LI	General	General	Full
Construct Taxiway {name} [includes relocation]	ST	TW	CO	General	General	Full
Extend Taxiway {name}	ST	TW	EX	General	General	Full
Strengthen/Widen Taxiway {name}	ST	TW	IM	General	General	Full
Install Taxiway {name} Sensors	ST	TW	SR	General	General	Full
VERTIPOINT (VT)	VT					
Construct/Expand/Improve/Modify/Rehabilitate Vertipoint	CA	VT	IM	Sponsor Cert	Sponsor Cert	General

**APPENDIX 1
AIP CONSTRUCTION PLANS AND SPECIFICATIONS REVIEW MATRIX**

NON-PRIMARY AIRPORTS						
NPIAS-ACIP Standard Descriptions and ACIP Codes				Acceptance of Plans & Specs Review Level		
PROJECT DESCRIPTION	ODO/ACIP Codes			ACCEPTANCE OF PLANS & SPECS BASED ON		
	Purpose	Component	Type	NP Less than \$300K*	NP Less than \$500K*	NP Greater than \$500K*
APRON (AP)	AP					
Construct {name} Apron	CA	AP	CO	Sponsor Cert	General	General
Construct {name} Apron (environmental mitigation)	EN	AP	CO	Sponsor Cert	General	General
Construct {name} Apron	ST	AP	CO	Sponsor Cert	General	General
Expand {name} Apron	CA	AP	EX	Sponsor Cert	General	General
Construct Deicing Pad	ST	AP	DI	Sponsor Cert	General	General
Rehabilitate {name} Apron	RE	AP	IM	Sponsor Cert	General	General
Expand/Strengthen {name} Apron	ST	AP	IM	Sponsor Cert	General	General
Install {name} Apron Lighting	ST	AP	LI	Sponsor Cert	General	General
BUILDING (BD)	BD					
Construct/Expand/Improve/Modify/Rehabilitate {describe} Building <Hangars>	ST	BD	MS	Sponsor Cert	General	General
Construct/Expand/Improve/Modify/Rehab <Sand/ChemStorage/Snow Removal Equip> Bldg	ST	BD	SN	Sponsor Cert	General	General
EQUIPMENT (EQ)	EQ					
Acquire Aircraft Deicing Equipment	ST	EQ	DI	Sponsor Cert	General	General
Acquire/Install/Rehabilitate Emergency Generator	ST	EQ	LI	Sponsor Cert	General	General
Acquire Aircraft Rescue & Fire Fighting Safety Equipment {describe} [not required by Part 139]	ST	EQ	MS	Sponsor Cert	General	General
Acquire Equipment <Sweepers/Avian Radar/FLIRS/FOD Detection/ etc.>	ST	EQ	MS	Sponsor Cert	General	General
Install Perimeter Fencing {e.g., access control} [not Part 107]	ST	EQ	SE	Sponsor Cert	General	General
Acquire <Snow Removal Equipment/Urea Truck/etc.>	ST	EQ	SN	Sponsor Cert	General	General
Acquire Friction Measuring Equipment	ST	EQ	SR	Sponsor Cert	General	General
Install Weather Reporting Equipment {describe, e.g., AWOS }	ST	EQ	WX	Sponsor Cert	General	General
STATE BLOCK GRANT PROGRAM	GP					
Non-Primary Development projects in state block grant program	SB	GP	PP	N/A	N/A	N/A
GROUND TRANSPORTATION (GT)	GT					
Construct/Expand/Improve/Modify/Rehabilitate Access Road	OT	GT	AC	Sponsor Cert	Sponsor Cert	Sponsor Cert
Construct/Expand/Improve/Modify/Rehabilitate Access Rail	OT	GT	RL	Sponsor Cert	Sponsor Cert	Sponsor Cert
Construct/Expand/Improve/Modify/Rehabilitate <Perimeter> Service Road	OT	GT	SV	Sponsor Cert	General	General
HELIPORT (HE)	HE					
Construct/Expand/Improve/Modify/Rehabilitate Helipad/Heliport	CA	HE	CO	Sponsor Cert	Sponsor Cert	General
Construct/Expand/Improve/Modify/Rehabilitate Helipad/Heliport	ST	HE	CO	Sponsor Cert	Sponsor Cert	General
HOMES (HO)	HO					
Noise Mitigation measures for residences outside 65 DNL	EN	HO	60	Sponsor Cert	Sponsor Cert	Sponsor Cert
Noise Mitigation measures for residences within 65 - 69 DNL	EN	HO	65	Sponsor Cert	Sponsor Cert	Sponsor Cert
Noise Mitigation measures for residences within 70 - 74 DNL	EN	HO	70	Sponsor Cert	Sponsor Cert	Sponsor Cert

NON-PRIMARY AIRPORTS						
NPIAS-ACIP Standard Descriptions and ACIP Codes				Acceptance of Plans & Specs Review Level		
PROJECT DESCRIPTION	ODO/ACIP Codes			ACCEPTANCE OF PLANS & SPECS BASED ON		
	Purpose	Component	Type	NP Less than \$300K*	NP Less than \$500K*	NP Greater than \$500K*
Noise Mitigation measures for residences within 75 DNL	EN	HO	75	Sponsor Cert	Sponsor Cert	Sponsor Cert
LAND (LA)	LA					
Acquire easement for noise compatibility/relocation {# relocated} outside 65 DNL	EN	LA	60	N/A	N/A	N/A
Acquire land for noise compatibility/relocation {# relocated} outside 65 DNL	EN	LA	60	N/A	N/A	N/A
Acquire easement for noise compatibility/relocation {# relocated} within 65 - 69 DNL	EN	LA	65	N/A	N/A	N/A
Acquire land for noise compatibility/relocation {# relocated} within 65 - 69 DNL	EN	LA	65	N/A	N/A	N/A
Acquire easement for noise compatibility/relocation {# relocated} within 70 - 74 DNL	EN	LA	70	N/A	N/A	N/A
Acquire land for noise compatibility/relocation {# relocated} within 70 - 74 DNL	EN	LA	70	N/A	N/A	N/A
Acquire easement for noise compatibility/relocation {# relocated} within 75 DNL	EN	LA	75	N/A	N/A	N/A
Acquire land for noise compatibility/relocation {# relocated} within 75 DNL	EN	LA	75	N/A	N/A	N/A
Acquire easement for development/relocation {list parcels and/or # relocated}	ST	LA	DV	N/A	N/A	N/A
Acquire land for development/relocation {list parcels and/or # relocated}	ST	LA	DV	N/A	N/A	N/A
Acquire miscellaneous land {describe, e.g., land for outer marker, relocate road}	ST	LA	MS	N/A	N/A	N/A
Acquire easement for Runway {describe} approach(es) {list parcels and/or # relocated}	ST	LA	SZ	N/A	N/A	N/A
Acquire land for Runway {describe} approach(es) {list parcels and/or # relocated}	ST	LA	SZ	N/A	N/A	N/A
NEW AIRPORT (NA)	NA					
Acquire Existing Airport	ST	NA	AQ	N/A	N/A	Full
Construct New Airport	ST	NA	CO	N/A	N/A	Full
OTHER (OT)	OT					
Construct Deicing Containment Facility	EN	OT	DI	Sponsor Cert	Sponsor Cert	General
Construct Deicing Containment Facility	ST	OT	DI	Sponsor Cert	Sponsor Cert	General
Noise Mitigation Measures [miscellaneous]	EN	OT	MS	Sponsor Cert	Sponsor Cert	General
Environmental Mitigation	EN	OT	MT	Sponsor Cert	Sponsor Cert	General
Install Noise Monitoring System/Equipment	EN	OT	NO	Sponsor Cert	Sponsor Cert	General
Construct/Improve/Repair <Fuel Farm/Utilities> [including MAP]	OT	OT	FF	Sponsor Cert	Sponsor Cert	General
Construct/Rehabilitate Parking Lot [non revenue producing-non hub]	OT	OT	PA	Sponsor Cert	Sponsor Cert	General
Construct Wash Rack	OT	OT	WR	Sponsor Cert	Sponsor Cert	General
Install Runway Incursion Caution Bars and/or Marking [non Part 139 CS] {SMGCS}	SP	OT	SG	General	General	General
Install Guidance Signs [non Part 139 CS and non Part 139]	ST	OT	SG	General	General	General
Install Infrastructure/Remove Obstructions to Support RNAV Approach	SP	OT	VI	General	General	General
Improve Airport Drainage [Improve TSA]	ST	OT	IM	General	General	Full
Improve Airport Erosion Control	ST	OT	IM	General	General	General
Improve Airport Miscellaneous Improvements	ST	OT	IM	General	General	General
Install miscellaneous <NAVAIDS/Approach Aids> {seg, circle, beacon, etc., Not ALS}	ST	OT	IN	General	General	General
Install Apron Flood or Gate Position Lighting	ST	OT	LI	Sponsor Cert	Sponsor Cert	General
Light/Mark/Remove Obstructions {location}	ST	OT	OB	Sponsor Cert	Sponsor Cert	General
Construct/Acquire Mobile ARFF Training Facility	ST	OT	RF	Sponsor Cert	Sponsor Cert	General
PUBLIC BUILDING (PB)	PB					
Noise Mitigation measures for public buildings outside 65 DNL	EN	PB	60	Sponsor Cert	Sponsor Cert	Sponsor Cert
Noise Mitigation measures for public buildings within 65 - 69 DNL	EN	PB	65	Sponsor Cert	Sponsor Cert	Sponsor Cert

NON-PRIMARY AIRPORTS						
NPIAS-ACIP Standard Descriptions and ACIP Codes				Acceptance of Plans & Specs Review Level		
PROJECT DESCRIPTION	ODO/ACIP Codes			ACCEPTANCE OF PLANS & SPECS BASED ON		
	Purpose	Component	Type	NP Less than \$300K*	NP Less than \$500K*	NP Greater than \$500K*
Noise Mitigation measures for public buildings within 70 - 74 DNL	EN	PB	70	Sponsor Cert	Sponsor Cert	Sponsor Cert
Noise Mitigation measures for public buildings within 75 DNL	EN	PB	75	Sponsor Cert	Sponsor Cert	Sponsor Cert
PLANNING (PL)	PL					
Conduct Airport Energy Efficiency Assessment	EN	PL	ES	N/A	N/A	N/A
Conduct Energy Efficiency Assessment	EN	PL	ES	N/A	N/A	N/A
Identify the airport's environmental footprint	EN	PL	ES	N/A	N/A	N/A
Sustainable Management Plan	EN	PL	ES	N/A	N/A	N/A
Sustainable Master Plan	EN	PL	ES	N/A	N/A	N/A
Conduct <Environmental Assessment/Environmental Impact Statement/Feasibility> <study/update>	EN	PL	MA	N/A	N/A	N/A
Conduct Noise Compatibility Plan study/update {Part 150}	EN	PL	NO	N/A	N/A	N/A
Conduct Environmental Study for Flight Procedure Approved in Part 150	EN	PL	NO	N/A	N/A	N/A
Conduct Ground Transportation/Rail Study	PL	PL	AC	N/A	N/A	N/A
Collect Airport Data for Airports GIS	PL	PL	GI	N/A	N/A	N/A
Conduct Airport Master Plan Study {ALP, EA, etc.}>	PL	PL	MA	N/A	N/A	N/A
Update Airport Master Plan Study {ALP, EA, etc.}>	PL	PL	MA	N/A	N/A	N/A
Conduct Metropolitan System Plan Study	PL	PL	ME	N/A	N/A	N/A
Update Metropolitan System Plan Study	PL	PL	ME	N/A	N/A	N/A
Conduct {name} (e.g., Pavement Maintenance Plan, PCI, NPDES, etc.) Study	PL	PL	MS	N/A	N/A	N/A
Update {name} (e.g., Pavement Maintenance Plan, PCI, NPDES, etc.) Study	PL	PL	MS	N/A	N/A	N/A
Safety Management System (SMS) Program	PL	PL	MS	N/A	N/A	N/A
Conduct State System Plan Study	PL	PL	ST	N/A	N/A	N/A
Update State System Plan Study	PL	PL	ST	N/A	N/A	N/A
Conduct Aeronautical Survey for WAAS Approach	PL	PL	VI	N/A	N/A	N/A
Conduct Vertiport/Tiltrotor Plan	PL	PL	VT	N/A	N/A	N/A
Conduct Wildlife Hazard Assessments	PL	PL	WH	N/A	N/A	N/A
RUNWAY (RW)	RW					
Construct Runway {name}	CA	RW	CO	General	General	Full
Construct Runway {name} (environmental mitigation)	EN	RW	CO	General	General	Full
Construct Runway {name} [includes relocation]	ST	RW	CO	General	General	Full
Extend Runway {name}	CA	RW	EX	General	General	Full
Rehabilitate Runway {name}	RE	RW	IM	Sponsor Cert	General	General
Rehabilitate Runway <Lighting/Electrical Vault>	RE	RW	LI	General	General	General
Groove Runway {name}	SP	RW	FR	General	General	General
Install Runway Distance-to-Go Signs	SP	RW	SG	General	General	General
Extend/Strengthen/Widen Runway {name} [to meet standards]	ST	RW	IM	General	General	Full
Install <full/partial> Instrument Approach Aid {describe, e.g., install localizer}	ST	RW	IN	General	General	General
Install Runway Lighting (HIRL, MIRL, TDZ, LAHSO or CL)	ST/SP	RW	LI	General	General	General
Construct/Extend/Improve Runway {name} Safety Area	ST	RW	SF	General	General	Full
Install Runway {name} Sensors	ST	RW	SR	General	General	General
Install Runway {name} <vertical/visual> Guidance System [PAPI/VASI/REIL/ALS/etc.]	ST/SP	RW	VI	General	General	General
SEAPLANE BASE (SB)	SB					

NON-PRIMARY AIRPORTS						
NPIAS-ACIP Standard Descriptions and ACIP Codes				Acceptance of Plans & Specs Review Level		
PROJECT DESCRIPTION	ODO/ACIP Codes			ACCEPTANCE OF PLANS & SPECS BASED ON		
	Purpose	Component	Type	NP Less than \$300K*	NP Less than \$500K*	NP Greater than \$500K*
Construct/Improve/Modify Seaplane Base (e.g. ramp/floats)	CA	SB	CO	Sponsor Cert	Sponsor Cert	Sponsor Cert
Rehabilitate Seaplane Base <ramp/floats>	RE	SB	IM	Sponsor Cert	Sponsor Cert	Sponsor Cert
TERMINAL DEVELOPMENT (TE)	TE					
Construct Terminal Building	ST	TE	CO	Sponsor Cert	General	General
Expand Terminal Building	ST	TE	EX	Sponsor Cert	General	General
Improve/Modify/Rehabilitate Terminal Building	ST	TE	IM	Sponsor Cert	General	General
Acquire Handicap Passenger Lift Device	ST	TE	MS	Sponsor Cert	Sponsor Cert	Sponsor Cert
TAXIWAY (TW)	TW					
Construct Taxiway {name}	CA	TW	CO	Sponsor Cert	General	General
Construct Taxiway {name} (environmental mitigation)	EN	TW	CO	Sponsor Cert	General	General
Construct Taxiway {name} [includes relocation]	ST	TW	CO	Sponsor Cert	General	General
Extend Taxiway	CA	TW	EX	Sponsor Cert	General	General
Rehabilitate Taxiway	RE	TW	IM	Sponsor Cert	General	General
Rehabilitate Taxiway {name} Lighting	RE	TW	LI	Sponsor Cert	General	General
Extend/Strengthen/Widen Taxiway {name}	ST	TW	IM	Sponsor Cert	General	General
Install Taxiway {name} Lighting (e.g., SMGCS, reflectors, MITL)	SP/ST	TW	LI	Sponsor Cert	General	General
Install Taxiway {name} Sensors	ST	TW	SR	Sponsor Cert	General	General
VERTIPOINT (VT)	VT					
Construct/Expand/Improve/Modify/Rehabilitate Vertipoint	ST	VT	IM	Sponsor Cert	Sponsor Cert	Sponsor Cert

APPENDIX 2 CONSTRUCTION PLANS AND SPECIFICATIONS "GENERAL REVIEW GUIDE"

Airport Name:		AIP Grant Number:			
Location:	LOCID:				
Project(s):		Engineer's Estimated Construction Cost:			
FAA Review Completed By (PM Name/Date):					
PLANS					
COVER SHEET					
		Yes	No	NA	Comments
1	Airport name				
2	Airport location				
3	Owner/Sponsor name				
4	AIP project number				
5	Project title				
6	Index of drawing sheets				
GENERAL					
		Yes	No	NA	Comments
1	Is the development shown on the site drawing consistent with the approved ALP?				
2	Is the development shown on the site drawing consistent with the proposed AIP grant?				
3	Do the plans incorporate any construction or related environmental mitigation measures associated with the applicable Federal Environmental Finding and/or other permits?				
4	RW / TW Width meets requirements per AC 150/5300-13				
5	RW / TW Safety area width/length per AC 150/5300-13				
6	Pavement section and thicknesses (match Pavement Design)				
7	Building/Equipment eligibility determination (by FAA)				
8	Design meets geometric separation and dimensional standards per AC 150/5300-13				
9	Review for ineligible items or unallowable costs.				
10	Modification to Design Standards documented and approved				
11	Do the plans properly show the required Construction Safety and Phasing Plan elements (i.e. phasing, work limits, barricades, haul routes, storage areas, clearance surfaces, etc.)?				
PAVEMENT MARKING (Reference AC 150/5340-1)					
		Yes	No	NA	Comments
Runway markings:					
1	Runway threshold markings				
2	Runway designation markings				
3	Runway centerline markings				
4	Runway aiming point marking				
5	Runway touchdown zone markings				
6	Runway threshold bar				

APPENDIX 2 CONSTRUCTION PLANS AND SPECIFICATIONS "GENERAL REVIEW GUIDE"

7	Demarcation bar				
8	Arrows and arrowheads				
9	Chevrons				
10	Runway holding position markings on runways				
11	Temporary markings during construction				
	Taxiway markings:				
1	Taxiway centerline markings				
2	Runway holding position markings on taxiways				
3	Edge Markings Needed?				
4	Surface Painted Holding Sign				
	SIGNS (Reference AC 150/5340-18)				
		Yes	No	NA	Comments
1	Signage- Layout				
2	Sign and marking plan approved for Part 139				
	LIGHTING PLAN (Reference AC 150/5340-30)				
		Yes	No	NA	Comments
1	Threshold/ Runway End lights (Color Coding, Height, Location & Spacing)				
2	Runway Lights (Color Coding, Height, Location & Spacing)				
3	Taxiway lights (Color Coding, Height, Location & Spacing)				
	NAVAIDS (PAPI, REILS, AWOS, ILS, etc.)				
		Yes	No	NA	Comments
1	Non-Fed coordination (for ILS/AWOS/PAPI)				
2	Location shown				
3	Siting criteria addressed in Design Report				
	SPECIFICATIONS				
		Yes	No	NA	Comments
1	Construction Safety & Phasing Plan incorporated in bid package (and reviewed and coordinated in OE/AAA)				
2	Modification to Construction Standards documented and approved				
3	AC 150/5370-10 latest revision used and any modifications identified				
4	Federal wage rates				In bid package or attached to contract
5	DBE goal identified				
	Note: "Yes" also means the element meets standards				
	ADDITIONAL COMMENTS:				

**APPENDIX 3
CONSTRUCTION PLANS AND SPECIFICATIONS "FULL REVIEW GUIDE"**

Airport Name:		AIP Grant Number:			
Location:	LOCID:				
Project(s):		Engineer's Estimated Construction Cost:			
FAA Review Completed by (PM Name/Date):					
PLANS					
COVER SHEET					
		Yes	No	NA	Comments
1	Airport name				
2	Airport location				
3	Owner/Sponsor name				
4	AIP project number				
5	Project title				
6	Index of drawing sheets				
GENERAL					
		Yes	No	NA	Comments
1	Is the development shown on the site drawing consistent with the approved ALP?				
2	Is the development shown on the site drawing consistent with the proposed AIP grant?				
3	Do the plans incorporate any construction or related environmental mitigation measures associated with the applicable Federal Environmental Finding and/or				
4	Building/Equipment eligibility determination (by FAA)				
5	Review for ineligible items				
6	Modification to Design Standards documented and approved				
7	Do the plans properly show the required Construction Safety and Phasing Plan elements (i.e. phasing, work limits, barricades, haul routes, storage areas, clearance surfaces, etc.)?				
LAYOUT & TYPICAL SECTIONS					
		Yes	No	NA	Comments
1	Design meets Geometric Separation and Dimensional Standards per AC 150/5300-13				
2	Pavement sections and thicknesses conforms to design report				
3	Drainage Plan				
RUNWAY					
		Yes	No	NA	Comments
1	Plan sheet shows existing pavement survey elevations and final longitudinal and transverse grades of pavement surface meeting grading standards per AC 150/5300-13				
2	Shoulder width meet standards				
3	Safety area width, length and grading meets standards for design category				

**APPENDIX 3
CONSTRUCTION PLANS AND SPECIFICATIONS "FULL REVIEW GUIDE"**

4	Runway OFA clear of all objects not fixed by function				
5	RW Width meets Runway Design Code				
TAXIWAY					
		Yes	No	NA	Comments
1	Plan sheet shows existing pavement survey elevations and final longitudinal and transverse grades of pavement surface meeting grading standards per AC 150/5300-13				
2	Shoulder width meet standards				
3	Safety area width and grading meets standards for design category				
4	Fillet Layouts shown, if required, and meet TDG				
5	Runway/taxiway/taxi lane separation meet standards				
6	Taxiway OFA clear of all objects not fixed by function				
7	Drainage Plan				
8	TW Width determined by Taxiway Design Group				
GRADING & DRAINAGE					
		Yes	No	NA	Comments
1	Contour lines/Spot Elevations				
2	Edge drains/outlets, etc.				
3	Drainage Structures proper for aircraft loads?				
4	Direction of flows indicated				
5	Ditches are outside of the safety areas				
MARKING (Reference AC 150/5340-1)					
		Yes	No	NA	Comments
1	Marking plan approved for Part 139 airports				
RUNWAY MARKINGS					
1	Runway designation markings				
2	Runway centerline-markings				
3	Runway threshold markings				
5	Runway aiming point marking				
6	Runway touchdown zone markings				
7	Runway side stripe markings				
8	Runway Displaced Threshold markings				
9	Runway demarcation bar				
10	Arrows and arrowheads				
11	Chevrons				
12	Runway holding position markings on runways				
13	Runway shoulder markings				
14	Temporary markings during construction**				
TAXIWAY MARKINGS					
1	Taxiway centerline markings				
2	Enhanced taxiway centerline markings				
3	Edge Markings Needed?				
4	Runway holding position markings on taxiways				

**APPENDIX 3
CONSTRUCTION PLANS AND SPECIFICATIONS "FULL REVIEW GUIDE"**

5	Surface Painted Holding Position Sign				
6	ILS Critical area, POFZ and other hold markings				
7	Intermediate Holding position marking for txy-tyx intersection				
8	Surface Painted taxiway location Marking				
SIGNAGE (Reference AC 150/5340-18)					
		Yes	No	NA	Comments
1	Signage- Layout				
2	Mandatory Instruction Signs				
3	Location signs				
4	Direction signs				
5	Destination signs				
6	ILS critical area/POFZ boundary sign				
7	Sign plan approved for Part 139 airports				
LIGHTING (Reference AC 150/5340-30)					
		Yes	No	NA	Comments
RUNWAY LIGHTING					
1	Threshold/Runway End lights (Color Coding, Height, Location & Spacing)				
2	Runway edge lights (Color Coding, Height, Location & Spacing)				
3	Runway Centerline Lights (Color Coding, Location & Spacing)				
3	TDZ Lights (Color Coding, Location & Spacing)				
TAXIWAY LIGHTING					
1	Taxiway Edge Lights (Color, Height, Location & Spacing)				
2	Taxiway Centerline Lights (Color-Coding, Spacing)				
3	RGL (Inpavement/Elevated; Color)				
4	Is there a SMGCS plan that requires specific lighting in this project?				
NAVAIDS (PAPI, REILS, etc.)					
		Yes	No	NA	
1	Non-Fed coordination (for ILS/AWOS/PAPI)				
2	Location shown				
3	Siting criteria addressed in Design Report				
SPECIFICATIONS					
		Yes	No	NA	Comments
1	Construction Safety & Phasing Plan incorporated in bid package (and reviewed and coordinated in OE/AAA)				
2	Buy American contract language				
3	Modifications to Construction Standards documented and approved				
4	AC 150/5370-10 latest revision used and any modifications identified				
5	Federal wage rates				In bid package or attached to contract

APPENDIX 3
CONSTRUCTION PLANS AND SPECIFICATIONS "FULL REVIEW GUIDE"

6	DBE Goal Identified				
	Note: "Yes" also means the element meets standards				
	** Separate plan sheet provided				
	ADDITIONAL COMMENTS:				

**APPENDIX 4
PM/ENGINEER AIP CONSTRUCTION PLANS AND SPECIFICATIONS (AT 90% COMPLETION)
REVIEW RECORD**

Airport Name:		AIP Grant Number:	
Location:	LOCID:		
Grant Description:		Engineer's Estimated Construction Cost:	
Project Planner/Manager:			

		Yes	No	NA	Comments
1	Is the proposed development shown consistent with the approved ALP?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
2	Is the proposed development consistent with the approved Scope of Work?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
3	What is the date of the "CURRENT FAA ADVISORY CIRCULARS REQUIRED FOR USE IN AIP FUNDED AND PFC APPROVED PROJECTS" list applicable for review of this project?				Date:

I have reviewed the Construction Project Plans and Specifications in accordance with the memorandum and find them acceptable. My review shall not be construed as a quality control check for the Airport Sponsor. The Airport Sponsor is ultimately responsible for certifying that the Plans and Specifications meet FAA requirements.

Signature	Date

I acknowledge that the review of plans and specifications has been completed by the PM/ Engineer based on my review of the Appendices under this memorandum.

Manager Signature	Date