



Summary Listing of Tests from AC 150/5370-10F

Summary of Changes

9/12/13 P-501

P-152 Excavation and Embankment

Responsibility	Specification Reference	Material	Tests Required	Sampling Locations	Minimum Test Frequency	Requirements	Test Procedure	Notes
QA	152-2.6	Structural Fill	Proof roll	In-place	Per Direction of Engineer	Rubber tired equipment weighing at least 25 tons	Engineer Observation	
QA	152-2.6, Table 152-1	Structural Fill placed below the Pavement Soil subgrade	Density & Moisture	In-place	1 per 4,000 SY	95% density; +/- 2% Optimum	ASTM D 2922, ASTM D 1556, or ASTM D 2167	
QA	152-2.6, Table 152-1	Utility trenches within building and pavement areas	Density & Moisture	In-place	1 per 4,000 SY	98% density; +/- 2% Optimum	ASTM D 2922, ASTM D 1556, or ASTM D 2167	
QA	152-2.6, Table 152-1	Embankment beneath landscaped or grass areas	Density & Moisture	In-place	1 per 1,000 SY	92% density, moisture as needed to obtain density	ASTM D 2922, ASTM D 1556, or ASTM D 2167	
QA	152-2.9	Areas under subbase or base course	Grade Tolerance	In-place		≤ 1/2" deviation (using 16' straight-edge); +/- 0.05' from true grade	Straightedge; Survey Results	
QA	152-2.9	Safety areas	Grade Tolerance	In-place		+/- 0.10' from true grade	Survey Results	

P-154 Subbase Course

Responsibility	Specification Reference	Material	Tests Required	Sampling Locations	Minimum Test Frequency	Requirements	Test Procedure	Notes
QA	154-2.1	Subbase Course	Gradation	Stock Pile	1 per day	Table I gradation	ASTM C 136 ASTM D 422	
QA	154-3.7	Subbase Course	Density & Moisture	In-place	1 per 4,000 SY	100% ASTM D698<60K; 100% ASTM D1557>60K; +/- 2% Optimum	ASTM D 2922 & ASTM D 1556,	
QA	154-3.8	Subbase Course	Grade Tolerance	In-place		≤ 1/2" deviation (using 16' straight-edge); +/- 0.05' from true grade	Straightedge; Survey Results	
QA	154-3.9	Subbase Course	Thickness	In-place	1 per 500 SY	-1/2"	Depth Test or Sample holes	

P-155 Lime Treated Subgrade

Responsibility	Specification Reference	Material	Tests Required	Sampling Locations	Minimum Test Frequency	Requirements	Test Procedure	Notes
QA	155-3.1	Lime Treated Subgrade	Application rate	In-place	One per 500 SY	5-7% (+0.5%)		Rate per Geotechnical Report
QA	155-6.4	Lime Treated Subgrade	Moisture Density Relations	In-place	One per 1000 SY	93%(0 to +2% Optimum)	ASTM D 698	
QA	155-3.2, 6.6	Lime Treated Subgrade	Thickness	In-place	One per 300 SY	-1/2"	Physical Measurement	

P-157 Cement Kiln Dust (CKD) Treated Subgrade

Responsibility	Specification Reference	Material	Tests Required	Sampling Locations	Minimum Test Frequency	Requirements	Test Procedure	Notes
QA	157-3.2	Cement Kiln Dust	Application rate	In-place	One per 500 SY	5-7% (+0.5%)		Rate per Geotechnical Report
QA	157-6.2	Cement Kiln Dust	Moisture Density Relations	In-place	One per 1000 SY	90%(0 to +2% Optimum)	ASTM D 1557	
QA	157-6.6	Cement Kiln Dust	Thickness	In-place	One per 300 SY	-1/2"	Physical Measurement	

P-158 Fly Ash Treated Subgrade

Responsibility	Specification Reference	Material	Tests Required	Sampling Locations	Minimum Test Frequency	Requirements	Test Procedure	Notes
Contractor	158-2.1	Fly Ash	CaO	Source	Approved by Engineer	Class "C" designation Minimum 25% CaO	ASTM C 618 Section 3.3, 5, 6, and 8	
Contractor	158-2.2	Water	AASHTO T 26 or potable	Source	One per source	AASHTO T 26 or potable	AASHTO T 26 or potable	
QA	158-3.1	Fly Ash Treated Subgrade	Application rate	In-place	One per 500 SY	12-15% (+0.5%) of dry weight [8.5-10lbs/sf] depth of 8-inches		
QA	158-3.2, 6.3, 6.4	Fly Ash Treated Subgrade	Moisture Density Relations	In-place	One per soil type	N/A	ASTM D 698	
QA	158-3.2, 6.3	Fly Ash Treated Subgrade	Moisture Content	In-place	One per 500 SY	0% - 3%	ASTM D 698	
QA	158-6.4	Fly Ash Treated Subgrade	Density	In-place	One per 500 SY	95% or greater	ASTM D 698 ASTM D 1556, ASTM D 2167, ASTM D 2922	Compact on dry side of optimum
QA	158-3.2, 6.6	Fly Ash Treated Subgrade	Thickness	In-place	One per 500 SY	[Per Project]	ASTM D 3665	
QA	158-6.5	Fly Ash Treated Subgrade	Grade Tolerance	In-place		≤ 3/8" deviation parallel and right angles to CL with 16' Straightedge.	Physical Measurement	

P-207 Recycled Bituminous Aggregate Base Course

Responsibility	Specification Reference	Material	Tests Required	Sampling Locations	Minimum Test Frequency	Requirements	Test Procedure	Notes
QA	207-2.1	Recycled Bituminous Aggregate Base Course	Gradation	Stockpile	1 per day		ASTM C136 ASTM D422	
QA	207-3.2	Recycled Bituminous Aggregate Base Course	Fly Ash Application Rate	In-place	One per 500 SY	10% (+0.5%) of dry weight		
QA	207-3.4.1	Recycled Bituminous Aggregate Base Course	Proof roll	In-place	Per Lift	< 1" deflection and < 1" permanent deformation	Tandem Axle Dual Wheel Dump Truck loaded to legal limit	May need to modify procedure to match equipment available
QA	207-3.5	Recycled Bituminous Aggregate Base Course	Density & Moisture	In-place	1 per lot [800 SY]	95% density; -2% to 0% Optimum	ASTM D 2922, ASTM D 1556,	
QA	207-3.7	Recycled Bituminous Aggregate Base Course	Grade Tolerance	In-place		≤ 3/8" deviation parallel and right angles to CL with 16' Straightedge.	Physical Measurement	
QA	207-3.8	Recycled Bituminous Aggregate Base Course	0	In-place	Per lot	-1/2"	Physical Measurement	

P-208 Aggregate Base Course

Responsibility	Specification Reference	Material	Tests Required	Sampling Locations	Minimum Test Frequency	Requirements	Test Procedure	Notes
Contractor /QA	208-2.3	Aggregate	Gradation	Source	One per source	P-208, Table 1	ASTM C 117 ASTM C 136, ASTM D422	Certified State Test results acceptable if less than 6 months old, Amt No 200 less than 1/2 of the % No40, < 3% finer than .02 mm unless all crushed.
QA	208-3.4d	Aggregate	Gradation Verification	In-place	1 per day	P-208, Table 1	ASTM D 75, ASTM C 136, ASTM C 117	
Contractor	208-2.2	Aggregate	Materials Crushed Slag	Source	One per source	Unit weight > 70 lbs/cf	ASTM C 29	
Contractor	208-2.2	Aggregate	Base material course aggregate	Source	One per source	Reasonably free of flat / elongated 2 fractured faces $\geq 60\%$ 1 fractured face $\geq 75\%$	ASTM D 693	
Contractor	208-2.1	Aggregate	Wear	Source	One per source	Wear $\leq 45\%$	ASTM C131	
Contractor	208-2.3	Base Course Material	Base material passing the No. 40 sieve	Liquid limit & Plasticity index	One per source	LL ≤ 25 ; PI ≤ 4	ASTM 4318	
QA	208-3.4 and 208-3.5	Aggregate	Moisture/ Density	In-place	1 per 300 SY	100% laboratory D698 < 60,000 lb D1557 > 60,000lb 98% control Strip Density (Establish control strip density by determining compactive effort needed to obtain maximum field density)	ASTM D 2922, ASTM D 3017, ASTM D 1556, ASTM D 2167 ASTM D 698	if a nuclear gauge is used two random reading shall be made for each sub-lot.
QA	208-3.7	Base Course	Grade Tolerance	In-place		$\leq 3/8"$ deviation (using 16' straight-edge)	Straightedge	
QA	208-3.8	Base Course	Thickness	In-place	1 / 300 SY	- 1/2"	Physical Measurement ASTM D 3665 Either Cores or depth tests comprised of contractors survey	

* **Notes:** Lot Definition: Lot equals one day's production if 2,400 SY or less; Lot equals one-half day's production if 2,400 to 4,800 SY. Divide each lot into two equal sub-lots.

P-209 Crushed Aggregate Base Course

Responsibility	Specification Reference	Material	Tests Required	Sampling Locations	Minimum Test Frequency	Requirements	Test Procedure	Notes
Contractor /QA	209-2.1a and 2.1b	Aggregate	Gradation	Source	One per source	P-209, Table 1	ASTM C 117 ASTM C 136	Certified State Test results are acceptable if less than 6 months old
QA	209-2.1a	Aggregate	Gradation Verification	In-place	1 per lot	P-209, Table 1	ASTM D 75, ASTM C 136, ASTM C 117	
Contractor	209-2.1	Aggregate	Materials Crushed Slag	Source	One per source	Unit weight > 70 lbs/cf	ASTM C 29	
Contractor	209-2.1	Aggregate	Base material course aggregate	Source	One per source	Flat/elongated ≤ 15% 2 fractured faces ≥90% 1 fractured face = 100%	ASTM D 693	
Contractor	209-2.1	Aggregate	Wear	Source	One per source	Wear ≤ 45%	ASTM C131	
Contractor	209-2.1	Aggregate	Soundness	Source	One per source	Sodium Sulfate soundness loss ≤ 12% after 5 cycles	ASTM C 88	
Contractor	209-2.1	Base Course Material	Base material passing the No. 40 sieve	Liquid limit & Plasticity index	One per source	LL ≤ 25 PI ≤ 4	ASTM 4318	
Contractor	209-2.1	Fine Aggregate	Base material fine aggregate	Source	One per source	Minimum Sand Equivalent value of 35	ASTM 2419	
QA	209-3.4 and 209-3.5	Aggregate	Moisture/Density	In-place	1 per sub-lot*	100% laboratory D698 < 60,000 lb D1557 > 60,000 lb 98% control Strip Density (Establish control strip density by determining compactive effort needed to obtain maximum field density)	ASTM D 2922, ASTM D 3017, ASTM D 1556, ASTM D 2167 ASTM D 698	If a nuclear gauge is used two random reading shall be made for each sub-lot.
QA	209-3.7	Base Course	Grade Tolerance	In-place		≤ 3/8" deviation (using 16' straight-edge)	Straightedge	
QA	209-3.8	Base Course	Thickness	In-place	4 per lot*	4" or more	Physical Measurement ASTM D 3665. Either Cores or depth tests comprised of contractors survey	

* **Notes:** Lot Definition: Lot equals one day's production if 2,400 SY or less; Lot equals one-half day's production if 2,400 to 4,800 SY. Divide each lot into two equal sub-lots.

P-219 Recycled Concrete Aggregate Base Course

Responsibility	Specification Reference	Material	Tests Required	Sampling Locations	Minimum Test Frequency	Requirements	Test Procedure	Notes
Contractor	219-2.1a and 2.1b	Aggregate	Gradation	Source	One per source	P-219, Table 1	ASTM C 117 ASTM C 136	
QA	219-2.1a and 4.8	Aggregate	Gradation Verification	In-place	Per Direction of Engineer - Minimum 1 per sub-lot*	P-219, Table 1	ASTM D 75, ASTM C 136, ASTM C 117	
Contractor	219-2.1	Aggregate	Materials	Source	One per source	PCC >90% by weight Remaining 10% - Wood (0.1% max); Brick mica, schist (max 4%); Asphalt concrete (10% max)		
Contractor	219-2.1	Aggregate	Base material course aggregate	Source	One per source	Flat/elongated \leq 20% on the 0.5 inch sieve	ASTM D 4791	
Contractor	219-2.1	Aggregate	Wear	Source	One per source	Wear \leq 45%	ASTM C131	
Contractor	219-2.1	Base Course Material	Base material passing the No. 40 sieve	Liquid limit & Plasticity index	One per source	LL \leq 25; PI \leq 4	ASTM 4318	
Contractor	219-2.1	Fine Aggregate	Base material fine aggregate	Source	One per source	Minimum Sand Equivalent - 35	ASTM 2419	
QA	219-4.7 and 219-4.8	Aggregate	Moisture/Density	In-place	1 per sub-lot*	Moisture content as determined by Engineer 100% density If test fails - two additional tests shall be made	ASTM D 698 ASTM D 2922 ASTM D 3017	
QA	219-4.10	Base Course	Grade Tolerance	In-place		\leq 3/8" deviation (using 16' straight-edge)	Straightedge	
QA	219-4.11	Base Course	Thickness	In-place	4 per lot*	4" or more	Physical Measurement ASTM D 3665 Either Cores or depth tests comprised of contractors survey	

* **Notes:** Lot Definition: Lot equals one day's production if 1,200 SY or less; Lot equals one-half day's production if 1,200 to 2,400 SY. Divide each lot into two equal sub-lots.

P-304 Cement Treated Base Course

Responsibility	Specification Reference	Material	Tests Required	Sampling Locations	Minimum Test Frequency	Requirements	Test Procedure	Notes
Contractor	304-2.1	Mix Design	Compressive Strength	Source	Per Project	7 day: 500 psi min 1,000 psi max	ASTM D1633	
QA	304-6.1.1	CTB	Density	Location	1/sub-lot	98%	ASTM D 558	
QA	304-6.1.2	CTB	Thickness	Location	1/sub-lot	random 4' core, - 1/2"		
QA	304-6.1.3	CTB	Grade Tolerance		1/25'	1/2"		
QA	304-6.1.4	CTB	Surface Tolerance	Location		3/8" / 16'		

P-401 Plant Mix Bituminous Pavements

Responsibility	Specification Reference	Material	Tests Required	Sampling Locations	Minimum Test Frequency	Requirements	Test Procedure	Notes
Contractor	401-3.4	Job Mix	Test Section	project	one	Stability = Flow = Mat Density Air Voids = Joint Density 90 PWL Gradation AC within action limits VMA		Evaluated as a single lot, but shall consist of 3 sub-lots
QA	401-5.1a(2)	HMA	Stability / Flow	4 sub-lots/lot	2/sub-lot	<60K 1350 / 10-18 >60K 2150 / 10-16	ASTM D 6927 ASTM D3203	
QA	401-5.1a(2)	HMA	BSG	4 sub-lots/lot	2/sub-lot		ASTM D 2726	For use in computing air voids and mat density
QA	401-5.1b(1)	HMA	Mat Density	sub-lot	1/sub-lot	> 1' from joint ASTM D3665	ASTM D 2726 ASTM D 1188	BSG Lot / Avg Lab BSG
QA	401-5.1b(2)	HMA	Joint Density	sub-lot	1/sub-lot	centered on joint	ASTM D 2726 ASTM D 1188	lowest BSG Lot / Avg Lab BSG
QA	401-5.2b (1)	HMA	Mat Density	sub-lot	lot	> 90 PWL	Section 110	See Table 5 for upper & lower limits
QA	401-5.2b (1)	HMA	Air voids	sub-lot	lot	> 90 PWL	Section 110	TMD per lot ASTM D-2041
QA	401-5.2b (2)	HMA	Stability / Flow	sub-lot	lot	> 90 PWL	Section 110	Average of all for sub-lot
QA	401-5.2b (3)	HMA	Joint Density	sub-lot	lot	> 90 PWL	Section 110	Min. 5" Core
QA	401-5.2b (4)	HMA	Thickness	sub-lot	lot	- 1/4"	Use mat cores	
QA	401-5.2b (5)	HMA	Smoothness	sub-lot	lot	3/8" 16' straightedge		
QA	401-5.2b (6)	HMA	Grade	lot	lot	+/-1/2" from plan	Levels @ 50' stations by licensed surveyor	

P-401 Plant Mix Bituminous Pavements (SuperPave)

Responsibility	Specification Reference	Material	Tests Required	Sampling Locations	Minimum Test Frequency	Requirements	Test Procedure	Notes
Contractor	401-3.4	Job Mix	Test Section	project	one	<ul style="list-style-type: none"> - Mat Density > 90PWL - Air Voids (%Gmm@ Ndes) - Joint Density > 90 PWL Gradation and AC w/ action limits - VMA & VFA @ Ndes - Dust Proportion - %Gmm @ Nmax 		Evaluated as a single lot, but shall consist of 3 sub-lots all within limits of Table 1
QA	401-5.1a(2)	HMA	Air voids	4 sub-lots/lot	2/sub-lot	90 PWL (3.35%-4.65% w/sd .65%)	ASTM D 3203	BSG ASTM D 2726 / ASTM D 1188 For Air Voids & Density TMD ASTM D 2041
QA	401-5.1a(2)	HMA	BSG	4 sub-lots/lot	2/sub-lot		ASTM D 2726 ASTM D 1188	For use in computing air voids and mat density
QA	401-5.1b(1)	HMA	Mat Density	sub-lot	1/sub-lot	> 1' from joint ASTM D3665	ASTM D 2726 ASTM D 1188	BSG Lot / TMD
QA	401-5.1b(2)	HMA	Joint Density	sub-lot	1/sub-lot	centered on joint	ASTM D 2726 ASTM D 1188	Lowest BSG Lot / TMD
QA	401-5.2b (1)	HMA	Mat Density	sub-lot	lot	> 90 PWL	Section 110	See Table 5 for upper & lower limits
QA	401-5.2b (1)	HMA	Air voids	sub-lot	lot	> 90 PWL	Section 110	See Table 5 for upper & lower limits
QA	401-5.2b (2)	HMA	Stability / Flow	sub-lot	lot	> 90 PWL	Section 110	See Table 5 for upper & lower limits
QA	401-5.2b (3)	HMA	Joint Density	sub-lot	lot	> 90 PWL	Section 110	See Table 5 for upper & lower limits
QA	401-5.2b (4)	HMA	Thickness	sub-lot	lot	- 1/4"	Use mat cores	
QA	401-5.2b (5)	HMA	Smoothness			3/8" 16' straightedge		
QA	401-5.2b (6)	HMA	Grade			+/- 1/2" profile		

P403 Plant Mix Bituminous Pavements

Responsibility	Specification Reference	Material	Tests Required	Sampling Locations	Minimum Test Frequency	Requirements	Test Procedure	Notes
Contractor	403-3.4	Job Mix	Test Section	project	one	<ul style="list-style-type: none"> - Mat Density - Air Voids - Joint Density - Gradation - AC within action VMA 		Evaluated as a single lot, but shall consist of 3 sub-lots
QA	403-5.1a(2)	HMA	Stability / Flow	4 sub-lots/lot	2/sub-lot	<60K 1000 / 8-20 >60K 1800 / 8-16	ASTM D 6927 ASTM D3203	
QA	403-5.1a(2)	HMA	BSG	4 sub-lots/lot	2/sub-lot		ASTM D 2726	For use in computing air voids and mat density
QA	403-5.1b(1)	HMA	Mat Density	sub-lot	1/sub-lot	> 1' from joint ASTM D3665	ASTM D 2726 ASTM D 1188	BSG Lot / Avg Lab BSG
QA	403-5.1b(2)	HMA	Joint Density	sub-lot	1/sub-lot	centered on joint	ASTM D 2726 / ASTM D 1188	Lowest BSG Lot / Avg Lab BSG
QA	403-5.2b (1)	HMA	Mat Density	sub-lot	lot	96	ASTM D 2726 / ASTM D 1188	
QA	403-5.2b (2)	HMA	Joint Density	sub-lot	lot	94	ASTM D 2726 / ASTM D 1188	
QA	403-5.2b (3)	HMA	Thickness	sub-lot	lot	- 1/4"	Use mat cores	
QA	403-5.2b (4)	HMA	Smoothness			3/8" 16' straightedge		
QA	401-5.2b (5)	HMA	Grade	Lot		1/2" 50 stations	Licensed Surveyor	

P-501 Portland Cement Concrete Pavement

Responsibility	Specification Reference	Material	Tests Required	Sampling Locations	Minimum Test Frequency	Requirements	Test Procedure	Notes
QA	501-4.8c	Concrete	Consolidation Testing	In Place	1 per 500 CY if suspicion dictates	Avg density shall be minimum 97% of original mix design density	ASTM C 642	
Contractor /QA	501-4.11f	Concrete	Straight-edge Testing and Surface Correction	In Place	As needed	16-foot straight edge while concrete is still plastic to monitor surface issues		
QA	501-5.1a.	Concrete	Flexural Strength	Location of Placement	2 per sub-lot*	PWL > 90 prior to testing - beam shall be measured and weighed report to the nearest 0.1 lb refer to spec for PWL details	ASTM D 3665 ASTM C 172 ASTM C 31 ASTM C 78	
Contractor /QA	501-5.1a	Concrete	Slump, air content, and temp	Location of Placement	2 per sub-lot*	Testing shall be coordinated with locations of Flexural Strength testing	ASTM C 31 ASTM C 39	
QA	501-5.1b	Concrete	Thickness	In Place	1 per sub-lot*	PWL > 90 8" pavement thickness refer to spec for PWL details	ASTM 3665 ASTM C 34 ASTM C 174	Engineer Responsible for coring
Contractor/ QA	501-5.2e (3)	Concrete	Smoothness	In Place	Per Direction of Engineer	16-foot straight edge Shall not exceed 1/4"		
Contractor	501-5.2e (3)	Concrete	Smoothness	In Place	2 passes per paving lane >20 feet 1 pass per paving lane <20	California type Profilograph		Report Contractor Responsible for Profilograph
Contractor	501-55.2e(4)	Concrete	Grade	Lot	Lot	+/- 0.04' vertically and +/- 0.1' laterally @ 50' Stations	Licensed Surveyor	
Contractor	501-6.2	Concrete	Contractor's Quality Control Testing Plan					Submitted as part of the Contractor's Quality Control Program

Notes:

* All testing based upon lot. Typically a lot = one days production depending upon the size of the project and contractors production rates.

P-610 Structural Portland Cement

Responsibility	Specification Reference	Material	Tests Required	Sampling Locations	Minimum Test Frequency	Requirements	Test Procedure	Notes
Contractor	610-3.3	Concrete	Compressive Strength	Location of Placement	1 per day (3 cylinders per day)	3,500 psi	ASTM C 31 ASTM C 39	

P-620 Runway & Taxiway Painting

Responsibility	Specification Reference	Material	Tests Required	Sampling Locations	Minimum Test Frequency	Requirements	Test Procedure	Notes
QA	620-3.1	Air	Surface Temperature	Location of Placement		≥ 45° F and paint manufacturer's recommendations		
QA	620-3.1	Pavement Surface	Temperature	Location of Placement		≥ 5° F above the dew point and ≤ 120° F and paint manufacturer's recommendations		
QA	620-2.5	Test Strip	Test Strip	Project	1 per project	Test strip of at least 5 gal paint w/beads (35# type I / 50# Type III)		Make sure that application equipment calibrated properly
QA	620-3.5	Application	Horizontal Alignment	In place		≤ 1/2" deviation in 50'	Physical Measurement	

D-701 Pipe for Storm Sewer & Culverts

Responsibility	Specification Reference	Material	Tests Required	Sampling Locations	Minimum Test Frequency	Requirements	Test Procedure	Notes
QA	701-3.5	Backfilling	Density	In-place	As needed	See P-152	ASTM D 2922, ASTM D 1556, or ASTM D 2167	

D-705 Pipe Underdrains for Airports

Responsibility	Specification Reference	Material	Tests Required	Sampling Locations	Minimum Test Frequency	Requirements	Test Procedure	Notes
QA	705-3.6a and 3.6b	Backfilling	Density	In-place	As needed	See P-152	ASTM D 2922, ASTM D 1556, or ASTM D 2167	
QA	705-3.6d	Backfilling	Deflection	In-place	As needed	Pipe not exceed 5% deflection	ASTM D 2321	

L-108 Underground Power Cable

Responsibility	Specification Reference	Material	Tests Required	Sampling Locations	Minimum Test Frequency	Requirements	Test Procedure	Notes
Contractor	108-2.1f and 3.8	Cable	Resistance	In-place	One per circuit	500 megohms for new circuits and No less than the resistance measured prior to the start of construction on existing circuits.		

L-110 Underground Conduit

Responsibility	Specification Reference	Material	Tests Required	Sampling Locations	Minimum Test Frequency	Requirements	Test Procedure	Notes
QA	110-3.5	Backfilling	Density	In-place	As needed	See P-152	ASTM D 2922, ASTM D 1556, ASTM D 2167	

L-125 Installation of Airport Lighting Systems

Responsibility	Specification Reference	Material	Tests Required	Sampling Locations	Minimum Test Frequency	Requirements	Test Procedure	Notes
QA	125-3.4	Runway and Taxiway Lights and Signs	Operation	In-place	Per Direction of Engineer	24-hour test continuous operation		