

NC AIRPORT DEVELOPMENT GUIDE

PRIORITY SYSTEM

Numerical Priority Descriptions

The projects are listed in priority order and numbered accordingly. Each category has subcategories with the assigned priority number listed next to it. Use the priority number for “Mins” or Minimum if project is needed to meet NCDOA Minimum criteria. Use the “Rec” or Recommended number if project is needed to meet NCDOA Recommended criteria.

	Project Category	Description	NCDOA Goals	
	RUNWAY APPROACH / SAFETY AREA / PROTECTION ZONES		<u>Mins</u>	<u>Rec</u>
	RUNWAY APPROACH	Runway ____ Obstruction(s) Land Acquisition (easement and/or fee simple)	75	25
		Runway ____ Obstruction(s) Removal / Runway Threshold Displacement / Relocation / Marking / Lighting	74	24
	RUNWAY SAFETY AREA (RSA)	Runway ____ Land Acquisition	73	
		Runway ____ Construct, expand, or repair based on approved RSA determination	72	
	RUNWAY PROTECTION ZONES (control, fee simple ownership preferred)	Runway ____ Land Acquisition / Obstruction removal / Easement	71	23
	PAVEMENT CONDITION - AIRFIELD			
	PAVEMENT CONDITION (Based on Pavement Management System)	Runway ____ Reconstruct / Rehabilitate (based on PCI), Overlay (No strengthening involved), Friction Surface / Grooving	70	
		Runway ____ Pavement Shoulder / Drainage	69	
		Taxiway Reconstruct / Rehabilitate (based on PCI), Overlay (No strengthening involved)	68	
		Taxiway Pavement Shoulder / Drainage	68	
		Apron Reconstruct / Rehabilitate (based on PCI), Overlay (No strengthening involved) to include area drainage	67	
	PAVEMENT CONSTRUCTION / EXPANSION / MODIFICATIONS - RUNWAY			
	RUNWAY LENGTH	Runway ____ Extension Benefit / Cost Analysis if required (reimbursable, if required by NCDOT)	66	22
		Runway ____ Extension Preliminary Engineering / Environmental Assessment (EA)	66	22
		Runway ____ Extension Land Acquisition	66	22
		Runway ____ Extension Design	66	22
		Runway ____ Extension Permitting / Clearing / Grading / Drainage / Paving / Marking / Lighting Friction Surface or Grooving / Signage / Navaid Relocation	65	21

		Runway ____ Extension Taxiway Extension	64	20
		Runway ____ Extension Widening	63	19
	PAVEMENT STRENGTH	Runway ____ Crack and/or Joint Sealing / Crack Relief Layer / Overlay /Marking / Shoulder Drainage	62	18
		Taxiway - Crack and/or Joint Sealing / Crack Relief Layer / Overlay /Marking / Shoulder Drainage	61	17
		Apron - Crack and/or Joint Sealing / Crack Relief Layer / Overlay /Marking / Shoulder Drainage	61	16
VISUAL NAVIGATIONAL AIDS/OTHER PART 77 OBSTRUCTIONS				
	VISUAL NAVIGATIONAL AIDS	Airport Rotating Beacon Land Acquisition / Installation / Upgrade	60	
		Windsock with Segmented Circle (lighted if runway has edge lights) Installation / Upgrade	60	
		Precision Approach Path Indicator (PAPI) Installation / Upgrade	59	
		Runway End Identifier Lights (REILs) Installation / Upgrade	58	
AIRFIELD LIGHTING & SIGNAGE – RUNWAY				
	RUNWAY EDGE LIGHTING	Install runway edge lighting system / Emergency replacement	57	15
		Install electrical vault	57	15
		Install Pilot Control Lighting	56	
		Replace / Relocate runway edge lighting	55	14
INSTRUMENT NAVIGATIONAL AIDS / WEATHER REPORTING EQUIP				
	WEATHER REPORTING CAPABILITY	AWOS – Land acquisition	54	13
		AWOS – may include site development and installation	53	12
	STD INSTR APPROACH PROC (SIAP)	Feasibility study	52	11
		Land acquisition	52	11
		Approach Clearing, Field Survey & Site Development	52	11
		Install (ILS) localizer / glideslope	51	10
		Install Distance Measuring Equipment (DME)	51	10
		Install Approach lighting	50	9
PAVEMENT CONSTRUCTION/EXPANSION/MODIFICATIONS – TAXIWAY & APRON				
	TAXIWAY Construction (Parallel, Connector and Turnarounds)	Preliminary Engineering / Environmental Assessment (EA)	49	8
		Design	49	8
		Land Acquisition	49	8

		Permitting / Clearing / Grading / Drainage / Paving / Marking / Lighting / Signage	48	7
	AIRCRAFT APRON /HELIPAD (Expansion / New Construction)	Preliminary Engineering / Environmental Assessment (EA)	47	
		Design	47	
		Land Acquisition	47	
		Permitting / Clearing / Grading / Drainage / Paving / Marking / Lighting / Signage	46	
		Security lighting	45	
		Security fencing	45	
		Corporate and T-hanger Taxiways	44	
TERMINAL BUILDING				
	TERMINAL BUILDING	Construct new terminal building	43	6
		Upgrade / expand existing terminal building	43	
		Construct terminal access road	42	
		Construct non-revenue terminal public parking area	41	
AIRFIELD LIGHTING & SIGNAGE – TAXIWAY & APRON				
	TAXIWAY AND APRON EDGE LIGHTING	Install taxiway edge lighting, including vault	40	5
		Rehabilitate / replace taxiway edge lighting, could include vault	39	5
		Install apron edge lighting	38	4
		Rehabilitate / replace apron edge lighting	37	4
	AIRFIELD SIGNAGE	Install airfield signage	36	3
		Install lighted airfield signage	36	3
		Rehabilitate / replace airfield signage	35	
GROUND COMMUNICATION				
	GROUND COMMUNICATION	Installation of ground communication system (GCO /RCO)	34	2
		Rehabilitate / replace ground communication system (GCO /RCO)	33	2
APPROACH LIGHTING				
	APPROACH LIGHTING	Rehabilitate / replace any of the above	32	1
		Install Omni Directional Approach Lights (ODALS)	31	1
AIRCRAFT RESCUE & FIRE FIGHTING EQUIPMENT (ARFF)				
	AIRCRAFT RESCUE & FIRE FIGHTING EQUIPMENT (ARFF)	Equipment as required by FAR Part 139.	30	

STORAGE BUILDINGS				
	HANGARS	Aircraft Storage Building	29	
	AIRFIELD MAINTENANCE EQUIPMENT & STORAGE BUILDING	Acquire / Replace Tractor and approved attachments	28	
		Acquire Equipment Shelter (no utilities provided)	28	
WILDLIFE SAFETY & SECURITY FENCING				
	SAFETY / SECURITY FENCING	Install security/safety fencing to prevent hazardous conditions	27	
FUEL FACILITIES				
	AIRCRAFT FUEL FACILITIES	Install Fuel Facility	26	

NCDOA has developed Minimum and Recommended criteria for each of the project categories above. Projects are evaluated utilizing the NC Airport Development Guide and the airport's FAA approved Airport Layout Plan.

Point Values for AIP Airport and ACIP Work Codes

A = Airport Code (2 to 5 pts.):

Primary Commercial Service Airports

A - Large and Medium Hub	= 5 pts
B - Small and Non Hub	= 4 pts

Non Primary Commercial Service, Reliever, and General Aviation Airports

Based Aircraft/Itinerant Operations

A - 100 or 50,000	= 5 pts
B - 50 or 20,000	= 4 pts
C - 20 or 8,000	= 3 pts
D - <20 and <8,000	= 2 pts

P = Purpose Points (0 to 10 pts)

CA = Capacity = 7pts
 EN = Environment = 8pts
 OT = Other = 4pts
 PL = Planning = 8pts
 RE = Reconstruction = 8pts
 SA = Safety/Security = 10pts
 SP = Statutory Emphasis Programs = 9pts
 ST = Standards = 6pts

C = Component Points (0 to 10 pts)

AP = Apron = 5pts	RW = Runway = 10pts
BD = Building = 3pts	SB = Seaplane = 9pts
EQ = Equipment = 8pts	TE = Terminal = 1pt
FI = Financing = 0pts	TW = Taxiway = 8pts
GT = Ground Transportation = 4pts	VT = Vertiport = 4pts
HE = Helipad = 9pts	
HO = Homes = 7pts	
LA = Land = 7pts	
NA = New Airport = 4pts	
OT = Other = 7pts	
PB = Public Building = 7pts	
PL = Planning = 7pts	

T = Type Points (0 to 10 pts)

60 = Outside 65 DNL = 0pts	IM = Improvements = 8pts	SE = Security Improvement = 6pts
65 = 65 - 69 DNL = 4pts	IN = Instrument Approach Aid = 7pts	SF = RW Safety Area = 8pts
70 = 70 - 74 DNL = 7pts	LI = Lighting = 8pts	SG = RW/TW Signs = 9pts
75 = Inside 75 DNL = 10pts	MA = Master Plan = 9pts	SN = Snow Removal Equipment = 9pts
AC = Access = 7pts	ME = Metropolitan Planning = 7pts	SR = Sensors = 8pts
AD = Administration Costs = 0pts	MS = Miscellaneous = 5pts	ST = State Planning = 8pts
AQ = Acquire Airport = 5pts	MT = Mitigation = 6pts	SV = Service = 6pts
BO = Bond Retirement = 0pts	NO = Noise Plan/Suppression = 7pts	SZ = Safety Zone (RPZ) = 8pts
CO = Construction = 10pts	OB = Obstruction Removal = 10pts	VI = Visual Approach Aids. Aid = 8pts
DI = De-Icing Facilities = 6pts	PA = Parking = 1pt	VT = Construct V/Tol RW/Vert Plan = 2pts
DV = Development Land = 6pts	PM = People Mover = 3pts	WX = Weather Reporting Equipment = 8pts
EX = Extension/Expansion = 6pts	RF = ARFF Vehicle = 10pts	
FF = Fuel Farm Development = 2pts	RL = Rail = 3pts	
FR = RW Friction = 9pts		

PROJECT DESCRIPTION	ACIP Codes			Airport Code			
	Purpose	Component	Type	A	B	C	D
				5	4	3	2
APRON							
Construct {name} Apron	CA	AP	CO	56	54	52	50
Expand {name} Apron	CA	AP	EX	47	46	44	42
Construct {name} Apron (environmental mitigation)	EN	AP	CO	66	64	62	60
Rehabilitate {name} Apron	RE	AP	IM	62	60	58	56
Construct {name} Apron	ST	AP	CO	46	44	43	41
Expand/Strengthen {name} Apron	ST	AP	IM	42	41	39	38
Install {name} Apron Lighting	ST	AP	LI	42	41	39	38
BUILDINGS							
<Construct/Expand/Improve/Modify/Rehabilitate> Aircraft Rescue & Fire Fighting Building [Pt.	SA	BD	EX	73	71	68	66
<Construct/Expand/Improve/Modify/Rehabilitate> {describe} Building	ST	BD	MS	34	32	31	29
<Construct/Expand/Imp/Modify/Rehabilitate> <Snow Removal Equipment/Chemical Storage B	ST	BD	SN	41	39	38	36
EQUIPMENT							
Acquire Driver's Enhanced Vision System	ST	EQ	MS	41	40	38	37
Acquire Interactive Training System	OT	EQ	MS	25	24	23	22
Acquire Aircraft Rescue & Fire Fighting Vehicle [required by Part 139 only]	SA	EQ	RF	98	95	93	90
Acquire Aircraft Rescue & Fire Fighting Safety Equipment {describe} [required by Part 139]	SA	EQ	RF	98	95	93	90
Acquire Security Equipment/Install Fencing {e.g., access control} [required by Part 107]	SA	EQ	SE	86	83	81	78
Acquire Aircraft Deicing Equipment	ST	EQ	DI	43	41	40	38
<Acquire/Install/Rehabilitate> Emergency Generator	ST	EQ	LI	47	45	44	42
Acquire Aircraft Rescue & Fire Fighting Safety Equipment {describe} [not required by Part 139]	ST	EQ	MS	41	40	38	37
Acquire Equipment {e.g., Sweepers, etc.}	ST	EQ	MS	41	40	38	37
Acquire Aircraft Rescue & Fire Fighting Vehicle [not required by Part 139]	ST	EQ	RF	50	49	47	46
Acquire Security Equipment/Install Perimeter Fencing {e.g., access control} [not Part 107]	ST	EQ	SE	43	41	40	38
Acquire <Snow Removal Equipment/Urea Truck/etc.>	ST	EQ	SN	48	47	45	44
Acquire Friction Measuring Equipment	ST	EQ	SR	47	45	44	42
Install Weather Reporting Equipment {describe, e.g., AWOS }	ST	EQ	WX	47	45	44	42
FINANCE							
Administrative Costs (PFC)	OT	FI	AD	0	0	0	0
Financing Costs	OT	FI	BO	0	0	0	0
GROUND TRANSPORTATION							
<Construct/Expand/Improve/Modify/Rehabilitate> <Inter/Intra> Terminal People Mover	CA	GT	PM	39	37	36	34
<Construct/Expand/Improve/Modify/Rehabilitate> <Inter/Intra> Terminal People Mover	OT	GT	PM	18	17	16	15
<Construct/Expand/Improve/Modify/Rehabilitate> Access Rail	CA	GT	RL	39	37	36	34
<Construct/Expand/Improve/Modify/Rehabilitate> Access Rail	OT	GT	RL	18	17	16	15
<Construct/Expand/Improve/Modify/Rehabilitate> Access Road	CA	GT	AC	48	46	44	42
<Construct/Expand/Improve/Modify/Rehabilitate> Access Road	OT	GT	AC	23	22	21	20
<Construct/Expand/Improve/Modify/Rehabilitate> Service Road	OT	GT	SV	22	21	20	19
HELIPORT							
<Construct/Expand/Improve/Modify/Rehabilitate> Helipad/Heliport	CA	HE	CO	63	61	59	57
<Construct/Expand/Improve/Modify/Rehabilitate> Helipad/Heliport	ST	HE	CO	52	50	49	47
RESIDENCE							
Noise Mitigation measures for residences outside 65 DNL	EN	HO	60	46	44	42	40
Noise Mitigation measures for residences within 65 - 69 DNL	EN	HO	65	56	54	52	50
Noise Mitigation measures for residences within 70 - 74 DNL	EN	HO	70	63	61	59	57
Noise Mitigation measures for residences within 75 DNL	EN	HO	75	70	68	66	64
LAND							
Acquire <land/easement> for noise compatibility/relocation {# relocated} outside 65 DNL	EN	LA	60	46	44	42	40
Acquire <land/easement> for noise compatibility/relocation {# relocated} within 65 - 69 DNL	EN	LA	65	56	54	52	50
Acquire <land/easement> for noise compatibility/relocation {# relocated} within 70 - 74 DNL	EN	LA	70	63	61	59	57
Acquire <land/easement> for noise compatibility/relocation {# relocated} within 75 DNL	EN	LA	75	70	68	66	64
Acquire <land/easement> for development/relocation {list parcels and/or # relocated}	ST	LA	DV	41	40	38	37
Acquire miscellaneous land {describe, e.g., land for outer marker, relocate road}	ST	LA	MS	40	38	37	35
Acquire land/easement for approaches {list parcels and/or # relocated}	ST	LA	SZ	45	44	42	41

PROJECT DESCRIPTION	ACIP Codes			Airport Code			
	Purpose	Component	Type	A	B	C	D
				5	4	3	2
NEW AIRPORTS							
Construct New Airport	CA	NA	CO	54	52	50	49
Acquire [existing] Airport	ST	NA	AQ	35	34	32	31
Construct New Airport	ST	NA	CO	44	43	41	40
OTHER							
Construct Deicing Containment Facility	EN	OT	DI	61	59	57	55
Noise Mitigation Measures [miscellaneous]	EN	OT	MS	58	56	54	52
Environmental Mitigation	EN	OT	MT	61	59	57	55
Install Noise Monitoring System/Equipment	EN	OT	NO	63	61	59	57
<Construct/Improve/Repair> <Fuel Farm/Utilities> [MAP]	OT	OT	FF	20	19	18	17
<Construct/Rehabilitate> Parking Lot [non revenue producing-non hub/MAP]	OT	OT	PA	19	18	17	16
<Light/Mark/Remove> Obstructions {list location}[hazard only e.g., approaches]	SA	OT	OB	95	93	90	88
Install <Guidance Signs/ Runway Incursion Caution Bars> [required by Part 139]	SA	OT	SG	92	90	87	85
Install <Guidance Signs/ Runway Incursion Caution Bars> [non Part 139 CS]	SP	OT	SG	80	77	75	73
<Install/Rehabilitate> Airport Beacons [required by Part 139]	SA	OT	VI	89	87	84	82
Install miscellaneous <NAVAIDS/Approach Aids> {seg, circle, beacon, etc., Not ALS}	SP	OT	IN	74	72	70	68
Install miscellaneous <NAVAIDS/Approach Aids> {seg, circle, beacon, etc., Not ALS}	ST	OT	IN	43	42	40	39
Improve Airport <Drainage/Erosion Control/miscellaneous improvements>	ST	OT	IM	45	44	42	41
<Light/Mark/Remove> Obstructions {location}	ST	OT	OB	49	47	46	44
Construct Aircraft Rescue & Fire Fighting Training Facility/Regional Burn Pit/Mobile Training F	ST	OT	RF	49	47	46	44
Install <Guidance/other> Signs [not Part 139]	ST	OT	SG	47	45	44	42
Construct Deicing Containment Facility	ST	OT	DI	41	40	38	37
PUBLIC BUILDINGS							
Noise Mitigation measures for public buildings outside 65 DNL	EN	PB	60	46	44	42	40
Noise Mitigation measures for public buildings within 65 - 69 DNL	EN	PB	65	56	54	52	50
Noise Mitigation measures for public buildings within 70 - 74 DNL	EN	PB	70	63	61	59	57
Noise Mitigation measures for public buildings within 75 DNL	EN	PB	75	70	68	66	64
PLANNING							
Conduct <Environmental Assessment/Environmental Impact Statement/Feasibility> <study/up>	EN	PL	MA	68	66	64	62
Conduct Noise Compatibility Plan study/update {Part 150}	EN	PL	NO	63	61	59	57
Conduct Ground Transportation/Rail Study	PL	PL	AC	63	61	59	57
<Conduct/Update> <Airport Master Plan Study {ALP, EA, etc.}>	PL	PL	MA	68	66	64	62
Conduct/Update Metropolitan System Plan Study	PL	PL	ME	63	61	59	57
<Conduct/Update> {name} (e.g., Pavement Maintenance Plan, PCI, NPDES, etc.)	PL	PL	MS	58	56	54	52
<Conduct/Update> State System Plan Study	PL	PL	ST	66	64	62	60
Conduct Vertiport/Tiltrotor Plan	PL	PL	VT	51	49	47	45
RUNWAYS							
Construct Runway {name}	CA	RW	CO	64	63	61	59
Extend Runway {name}	CA	RW	EX	56	54	53	51
Construct Runway {name} (environmental mitigation)	EN	RW	CO	76	74	72	70
Rehabilitate Runway {name}	RE	RW	IM	72	70	68	66
Rehabilitate Runway <Lighting/Electrical Vault>	RE	RW	LI	72	70	68	66
Install Runway Lighting (HIRL, MIRL) [Required by Part 139]	SA	RW	LI	97	94	92	89
Install Runway Lighting (HIRL, MIRL) [non Part 139 CS]	SP	RW	LI	84	81	79	77
<Construct/Extend/Improve> Runway {name} Safety Area [Primary Airports]	SA	RW	SF	97	94	92	89
<Apply Friction Course/Groove> Runway	SP	RW	FR	86	84	82	80
Install Runway {name} distance-to-go Signs	SP	RW	SG	86	84	82	80
Install Runway {name}<Vertical/Visual> Guidance System [PAPI/VASI/REIL/ALS/etc.]	SP	RW	VI	84	81	79	77
Construct Runway {name} [includes relocation]	ST	RW	CO	53	52	50	49
<Construct/Extend/Improve> Runway {name} Safety Area [Non-Primary Airports]	ST	RW	SF	50	48	47	45
Install Runway Lighting (HIRL, MIRL, TDZ, LAHSO or CL)	ST	RW	LI	50	48	47	45
<Extend/Widen/Strengthen> Runway {name} [to meet standards]	ST	RW	IM	50	48	47	45
Install <full/partial> Instrument Approach Aid {describe, e.g., install localizer}	ST	RW	IN	48	46	45	43
Install Runway {name} Sensors	ST	RW	SR	50	48	47	45
Install Runway {name} <vertical/visual> Guidance System [PAPI/VASI/REIL/ALS/etc.]	ST	RW	VI	50	48	47	45

PROJECT DESCRIPTION	ACIP Codes			Airport Code			
	Purpose	Component	Type	A	B	C	D
				5	4	3	2
SEAPLANE BASES							
Rehabilitate Seaplane <ramp/floats>	RE	SB	IM	72	70	68	66
<Construct/Improve/Modify> Seaplane ramp/floats	CA	SB	CO	64	63	61	59
<Construct/Improve/Modify> Seaplane ramp/floats	ST	SB	CO	53	52	50	49
TERMINAL DEVELOPMENT							
Construct Terminal Building	CA	TE	CO	49	47	45	43
Expand Terminal Building	CA	TE	EX	40	39	37	35
<Improve/Modify/Rehabilitate> Terminal Building	CA	TE	IM	44	43	41	39
Construct Terminal Building	ST	TE	CO	40	38	37	35
Expand Terminal Building	ST	TE	EX	32	31	29	28
<Improve/Modify/Rehabilitate> Terminal Building	ST	TE	IM	36	35	33	32
Acquire Handicap Passenger Lift Device	ST	TE	MS	31	29	28	26
TAXIWAYS							
Construct Taxiway {name}	CA	TW	CO	61	59	57	56
Extend Taxiway	CA	TW	EX	53	51	49	47
Construct Taxiway {name} (environmental mitigation)	EN	TW	CO	72	70	68	66
Rehabilitate Taxiway	RE	TW	IM	68	66	64	62
Rehabilitate Taxiway {name} Lighting	RE	TW	LI	68	66	64	62
Install Taxiway {name} Lighting (MITL) [Required by Part 139]	SA	TW	LI	92	89	87	84
Install Taxiway {name} Lighting (MITL) [non Part 139 CS]	SP	TW	LI	79	77	75	72
Construct Taxiway {name} [includes relocation]	ST	TW	CO	50	49	47	46
<Extend/Widen/Strengthen> Taxiway {name}	ST	TW	IM	47	45	44	42
Install Taxiway {name} Lighting (e.g., SMGCS, reflectors, MITL)	ST	TW	LI	47	45	44	42
Install Taxiway {name} Sensors	ST	TW	SR	47	45	44	42
VERTIPORTS							
<Construct/Expand/Improve/Modify/Rehabilitate> Vertiport	CA	VT	IM	50	48	46	44
<Construct/Expand/Improve/Modify/Rehabilitate> Vertiport	ST	VT	IM	41	39	38	36

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Priority Equation = $k5 \cdot P \cdot (k1 \cdot A + k2 \cdot P + k3 \cdot C + k4 \cdot T)$

Priority Number = $.25P(A + 1.4P + C + 1.2T)$

k1 =	1.00
k2 =	1.40
k3 =	1.00
k4 =	1.20
k5 =	0.25
k6 =	0.00

