Defiance

Airport System Plan Compliance Recommendations Summary*

Associated City	Defiance							
Airport Name	Defiance Memorial (DFI)							
Ohio Airport System								
Classification Level	General Aviation Level 1							
CRITICAL COMPLIANCE FACTORS								
Current airport conditions								
Compliance Item	Current Compliance	Action	Estimated Cost					
Pri ma ry RSA	In compliance							
Primary RPZ - Percent								
Controlled	47.5%	Land Acquisition of remaining 53%	\$198,000					
PCI - Primary Runway	82.5 (Satisfactory)	20 year pavement maintenance	\$1,581,000					
PCI - All Other Pavements	86.3 (Good)	20 year pavement maintenance	\$1,335,000					
Compliance Factors: Estimated Cost \$3,114,0								

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GLOSSARY

Aircraft Fuel: 100LL AvGas for piston engines and Jet-A for turbine engines. Fuel farm installation includes a tank, containment system, and distribution system.

Airport Beacon: a rotating beacon mounted on top of a tower or tall structure, installed to indicate an airport's location to aircraft operating at night.

ALS (Approach Lighting System): allows pilots to visually align with a runway while on approach. An ALS extends outward from a runway end and consists of lightbars, strobe lights, or a combination. Common forms indude the medium intensity approach lighting system with runway alignment indicator lights (MALSR) and the medium intensity approach lighting system with sequenced flashing lights (MALSF).

ARC (Airport Reference Code): expressed as a letter (A-E) for the design aircraft's approach speed, and Roman numeral (I-IV) for the aircraft's wingspan. The ARC determines design standards such as runway, Runway Safety Area (RSA), and Runway Protection Zone (RPZ) dimensions, and ta xiway separation standards.

ATCT (Air Traffic Control Tower): service provided by ground-based controllers who direct a ircraft on the ground and through controlled airspace, and can provide a dvisory services to aircraft in non-controlled airspace. Primary purpose is to prevent collisions, organize and expedite the flow of traffic

ATC Comms (Communications): Capability to communicate while on the ground with a ir traffic control, either by radio or by cell phone.

Automated Weather Reporting: disseminates weather information to pilots through an automated radio frequency. Systems include the automated weather observing system (AWOS) and automated surface observing system (ASOS).

Benchmarks: minimum recommended facility and service goals set for each airport in the Ohio system based on the system classification level.

Classification Levels: a set of airport groups in the Ohio system, as defined by *The Ohio Airports Focus Study*. Levels include one group for air carrier airports, two groups of general aviation airports primarily serving turbine aircraft (1 and 2), and two groups primarily serving piston aircraft (3 and 4).

CONTINUED ON THE NEXT PAGE

Page 1 of 3

Defiance Airport System Plan Benchmark Recommendations Summary* Associated City Defiance Airport Name Defiance Memorial (DFI) Ohio Airport System Enter System

Classification Level General Aviation Level 1 **SCENARIO 1 RECOMMENDATIONS** Level 1 Facility and Service Benchmarks Scenario 1: Upgrade from ARC B-II to C-II with Other Recommendations to Meet Level 1 Classification Benchmarks** GA Level 1 Airport **Benchmark** Item Objective*** Facility Recommendation Estimated Cost IAP NP Install APV approach \$62,500 P or APV No \$589,100 Fencing Perimeter Install full perimeter fencing ARC C-II B-II B-II to C-II ARC Items (details below) **ARC** Detail Primary Runway to 5,000' \$5,286,600 ARC Detail **RSA/ROFA RWY End Improvements** \$458,400 ARC Detail Widen RWY 25' (Final Width 100') \$3,776,500 ARC Detail \$67,500 Runway End Lights both ends ARC Detail \$1,427,500 Approach Lighting System (MALSR) **ARC** Detail Non-Precision Runway Markings \$136,700 ARC Detail Extend Partial Parallel Taxiway \$2,727,500 Scenario 1: Estimated Cost - Full ARC Upgrade from B-II to C-II with Other Benchmark Recommendations \$14,532,000

Red text = airport facility does not meet Ohio System Plan objective

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Scenario 1 incorporates recommended changes to ARC standards; Scenario 2 assumes airport will not change its current ARC *These are minimum system recommendations – certain airports may need enhanced facilities due to their specific circumstances

GLOSSARY

Compliance Factors: FAA standards to which airports are held; often as sociated with grant assurances. System recommendations and costs were developed to meet current ARC, RSA, RPZ, and PCI standards

Fencing: a barrier encompassing full airport perimeter, partial airport perimeter, or air operations a rea (AOA) only.

Fuel: attended or self-service fueling facilities.

IAP (Instrument Approach Procedure): enhance airport safety and efficiency by allowing pilots to navigate to airports in conditions of low visibility. Benchmarks recommend three types of IAP: P – Precision (an instrument landing system), APV – a pproaches with vertical guidance, and NP – non-precision. V – Denotes a visual approach.

PCI (Pavement Condition Index): an expression of the condition of an airport pavement on a scale from 100 to 0. PCI ratings on this scale: Good (100-85), Satisfactory (85-70), Fair (70-55), Poor (55-40), Very Poor (40-25), Serious (25-10), and Failed (10-0).

Runway Lighting: includes three standard forms: high, medium, and low intensity runway lighting, expressed as HIRL, MIRL, and LIRL.

RPZ (Runway Protection Zone): a trapezoidal area located at ground level prior to the threshold or runway end, designed to enhance the protection of people and property on the ground. Dimensions are determined by the ARC.

RSA (Runway Safety Area): a surface surrounding the runway prepared or suitable for reducing the risk of damage to aircraft in the event of an undershoot, overshoot, or excursion from the runway. Dimensions are determined by the ARC.

Snow Removal: Airport-owned snow removal equipment used to clear the air operations area (AOA) of a ccumulation to maintain safe operating conditions. For airports that reported having contracted snow removal, this is sufficient to meet the goal.

Terminal Building: a building for airport users that typically houses any or all of the following: a irport administration, pilot lounge, flight planning, restrooms, FBO offices, and conference room.

Visual Approach Aids: visual glide slope indicator (VGSI), a ground lighting system that defines a vertical approach path, indicating to pilots if their approach is too low or too high. Common VGSIs indude the precision approach slope indicator (VASI) and precision approach path indicator (PAPI).

Page 2 of 3

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Airport System Plan Benchmark Recommendations Summary*							
Associated City		Defiance					
Airport Name	Defiance Memorial (DFI)						
Ohio Airport System			General Aviation Level 1				
	SCENAR						
SCEINARIO Z RECOMMIENDATIONS							
Level 1 Facility and Service Benchmarks							
Scenario	GA Level 1	Airport					
Benchmark Item	Objective**	Facility	Recommendation	Estimated Cost			
Primary Runway Length (ft)	≥ 5000	4,199	Primary Runway to 5,000'	\$3,416,300			
RunwayLighting	HIRL	MIRL	HIRL	\$419,900			
Airport Beacon	Yes	Yes					
Taxiway Type	Full Parallel	Partial Parallel	Full Parallel	\$2,060,900			
АТСТ	Yes, if Part 139 certified						
ATC Comms	Yes	Yes					
IAP	P or APV	NP	APV	\$62,500			
Terminal/Admin.Building	Yes	Yes					
Fuel	Jet-A, 100LL	Jet-A, 100LL					
Weather Reporting	Automated	Yes					
Paved Aircraft Parking	Yes	Yes					
ALS	MALSR	No	MALSR	\$1,427,500			
Visual Approach Aids	PAPI	Yes					
Snow Removal	Yes	Yes					
Fencing	Perimeter	Partial	Full Perimeter	\$589,100			
Level 1 Facility and Service Bencl	nmarks: Estimated	Cost		\$7,976,000			
Red text = airport facility does not meet Ohio System Plan objective *Project listing for planning purposes only; does not indicate FAA approval or supersede detailed engineering studies, airport master plan, or pavement maintenance plan **Scenario 1 incorporates recommended changes to ARC standards; Scenario 2 assumes airport will not change its current ARC ***These are minimum system recommendations – certain airports may need enhanced facilities due to their specific circumstances							

Page 3 of 3