```
*****************************************************
*              Federal Airways & Airspace           *
*          Summary Report: New Construction         *
*                   Antenna Structure               *
*****************************************************
```

Airspace User: Leslie Nixon

File: 280422

Location: Chapel Hill, NC
Distance: 5.6 Statute Miles
Direction: 348° (true bearing)

Latitude: 35°-50'-55.25" Longitude: 79°-01'-13.6"

SITE ELEVATION AMSL.....282 ft.
STRUCTURE HEIGHT.....199 ft.
OVERALL HEIGHT AMSL.....481 ft.

NOTICE CRITERIA
FAR 77.9(a): NNR (DNE 200 ft AGL)
FAR 77.9(b): NNR (DNE Notice Slope)
FAR 77.9(c): NNR (Not a Traverse Way)
FAR 77.9: NNR FAR 77.9 IFR Straight-In Notice Criteria for IGX
FAR 77.9: NNR FAR 77.9 IFR Straight-In Notice Criteria for RDU
FAR 77.9(d): NNR (Off Airport Construction)

NR = Notice Required
NNR = Notice Not Required
PNR = Possible Notice Required (depends upon actual IFR procedure)
For new construction review Air Navigation Facilities at bottom of this report.

Notice to the FAA is not required at the analyzed location and height for slope, height or Straight-In procedures. Please review the 'Air Navigation' section for notice requirements for offset IFR procedures and EMI.

OBSTRUCTION STANDARDS
FAR 77.17(a)(1): DNE 499 ft AGL
FAR 77.17(a)(2): DNE - Airport Surface
FAR 77.19(a): DNE - Horizontal Surface
FAR 77.19(b): DNE - Conical Surface
FAR 77.19(c): DNE - Primary Surface
FAR 77.19(d): DNE - Approach Surface
FAR 77.19(e): DNE - Transitional Surface

VFR TRAFFIC PATTERN AIRSPACE FOR: IGX: HORACE WILLIAMS
Type: A RD: 33720.86 RE: 488.3
FAR 77.17(a)(1): DNE
FAR 77.17(a)(2): DNE - Height No Greater Than 200 feet AGL.
VFR Horizontal Surface: DNE
VFR Conical Surface: DNE
VFR Approach Slope: DNE
VFR Transitional Slope: DNE

VFR TRAFFIC PATTERN AIRSPACE FOR: RDU: RALEIGH-DURHAM INTL
Type: A RD: 65202.52 RE: 363
FAR 77.17(a)(1): DNE
FAR 77.17(a)(2): DNE - Greater Than 5.99 NM.
VFR Horizontal Surface: DNE

VFR Conical Surface: DNE
VFR Approach Slope: DNE
VFR Transitional Slope: DNE

TERPS DEPARTURE PROCEDURE (FAA Order 8260.3, Volume 4)
FAR 77.17(a)(3) Departure Surface Criteria (40:1)
DNE Departure Surface

MINIMUM OBSTACLE CLEARANCE ALTITUDE (MOCA)
FAR 77.17(a)(4) MOCA Altitude Enroute Criteria
The Maximum Height Permitted is 900 ft AMSL

PRIVATE LANDING FACILITIES

FACIL IDENT	TYP	NAME	BEARING To FACIL	RANGE IN NM	DELTA ARP ELEVATION	FAA IFR
3NC9	AIR	WOMBLE FIELD	295.85	3.62	+6	

No Impact to VFR Transitional Surface.
Below surface height of 262 ft above ARP.

83NC	HEL	HOLLY GREEN	19.71	4.68	+181	

No Impact to Private Landing Facility
Structure is beyond notice limit by 23436 feet.

AIR NAVIGATION ELECTRONIC FACILITIES

FAC IDNT	TYPE	ST AT	FREQ	VECTOR	DIST (ft)	DELTA ELEVA	ST	LOCATION	GRND ANGLE	APCH BEAR
RDU	VORTAC	I	117.2	82.9	70798	+52	NC	RALEIGH/DURHAM	.04	
RDU	RADAR WXL	Y		82.89	70799	+52	NC	RALEIGH/DURHAM	.04	
RDU	RADAR	Y	2750.	81.81	73111	-14	NC	RALEIGH-DURHAM IN	-.01	

No Impact. This structure does not require Notice based upon EMI.
The studied location is within 20 NM of a Radar facility.
The calculated Radar Line-Of-Sight (LOS) distance is: 54 NM.
This location and height is within the Radar Line-Of-Sight.

RAX	RADAR WXL	Y		113.14	170968	+19	NC	RALEIGH/DURHAM	.01	
LIB	VORTAC	I	113.0	265.43	176058	-347	NC	LIBERTY	-.11	
QRL	RADAR ARSR	Y	1266.4	131.4	186254	+130	NC	Raleigh (Benson)	.04	

FCC AM PROOF-OF-PERFORMANCE
NOT REQUIRED: Structure is not near a FCC licensed AM radio station Proof-of-Performance is not required. Please review AM Station Report for details.

Nearest AM Station: WCHL @ 9970 meters.

Airspace® Summary Version 13.11.334

AIRSPACE® and TERPS® are registered ® trademarks of Federal Airways & Airspace®
Copyright © 1989 - 2013

02-06-2014
15:10:07