

OBSTRUCTION DATA SHEET

ODS 5537
SUGAR LAND MUNICIPAL/HULL FIELD
HOUSTON, TEXAS

DIGITIZED FROM

OC 5537
SURVEYED DECEMBER 1993
3RD EDITION

HORIZONTAL DATUM NAD 83
VERTICAL DATUM NGVD 29



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U.S. DEPARTMENT OF COMMERCE
FOR THE FEDERAL AVIATION ADMINISTRATION

ATTENTION

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OBSTRUCTION DATA SHEET

The Obstruction Data Sheet (ODS) provides digital obstruction and runway data for use in aircraft arrival and departure planning. This information has been obtained using field survey and photogrammetric methods by the Photogrammetry Branch of the National Ocean Service in accordance with Federal Aviation Regulations Part 77 (FAR-77), "Objects Affecting Navigable Airspace" and FAA No. 405, "Specifications - Airport Obstruction Chart and Related Products."

The ODS is a derivative of the Airport Obstruction Chart (OC). The source OC is indicated on the ODS cover. All objects, both obstructing and nonobstructing, that carry an elevation on the OC are listed in the ODS. The ODS and the OC depict a representation of objects that existed at the time of the OC field survey.

ODS information is arranged as follows:

1. Objects located in an FAR-77 approach or primary and listed with the associated runway (reference runway).
2. All objects not included in "1" above are listed with the Airport Reference Point (ARP).
3. Runway configuration and runway lengths, widths, and elevations are presented on the ODS last page.

The FAR-77 imaginary approach surfaces for which the obstruction surveys were performed are coded in the ODS as follows:

- A(V) Utility runway - visual approach only
- A(NP) Utility runway - nonprecision instrument approach
- B(V) Nonutility runway - visual approach only
- C Nonutility runway - nonprecision instrument approach with visibility minimums greater than 3/4 mile
- D Nonutility runway- nonprecision instrument approach with visibility minimums as low as 3/4 mile
- PIR Precision instrument runway
- SUPLC Supplemental C underlying a B(V)

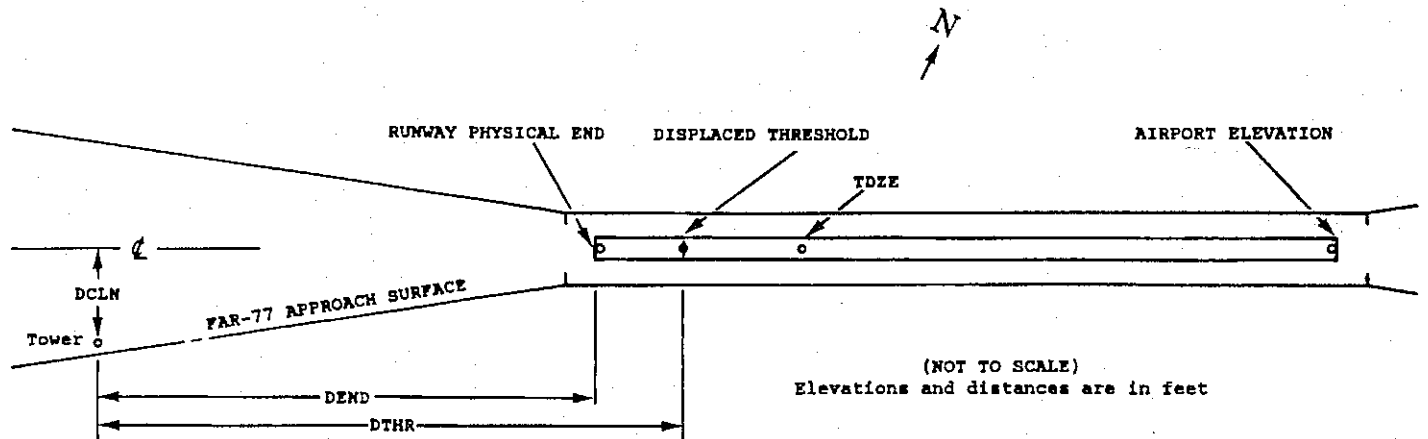
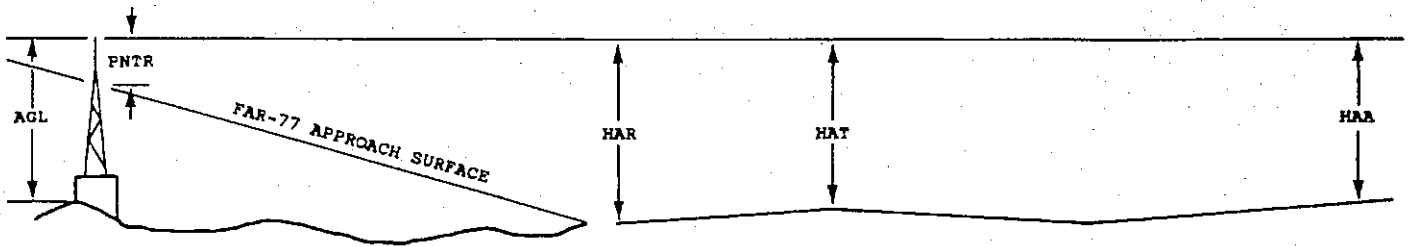
FAR-77 imaginary surface dimensions are defined on page 2 of this report.

ANNOTATION OF ODS DATA FORMAT

OC XXXX

AIRPORT ELEVATION XXXX

1	2	3	4	4	5	6	7	7	8	9	10	11	11	11	12	12	12	13
X	X	XXXX/XXXX	XXXXXX.XXX	XXXXXX.XXX	XXXXXX	XXXX/XXXX	XXXXXX.XXX	XXXXXX.XXX	A	ELEV	AGL	HAR	HAT	HAA	DEND	DTHR	DCLN	PNTR
XXXXXXXXXXXX			XXXXXX.XXX	XXXXXX.XXX	XX	XXXX	XXXX	XXXX	XXX	XXX	XXX	XXX	XXX	XXXX	XXXX	XXXX	XXXX	XXXX
XXXXXXXXXXXX			XXXXXX.XXX	XXXXXX.XXX	XX	XXXX	XXXX	XXXX	XXX	XXX	XXX	XXX	XXX	XXXX	XXXX	XXXX	XXXX	XXXX



EXPLANATION OF FOOTNOTES

- 1 Data block identifier. If a runway number is entered (reference runway), this data block will contain data pertinent to the reference runway and to objects in the FAR-77 approach and primary areas of the reference runway. If ARP is entered, this data block will contain the ARP position and data relative to all objects not in an FAR-77 approach or primary area.
- 2 For the reference runway, the lowest FAR-77 approach surface for which an obstruction survey was performed. (More than one surface may be surveyed).
- 3 Elevation at approach end of reference runway/touchdown zone elevation
- 4 Latitude and longitude at approach end of reference runway
- 5 Geodetic azimuth of reference runway reckoned from north
- 6 Elevation at reference runway displaced threshold/touchdown zone elevation
- 7 Latitude and longitude at reference runway displaced threshold
- 8 Accuracy codes: Horizontal (Ft.) Vertical (Ft.)

1 = 20	A = 2
2 = 40	B = 5
	C = 20
- 9 Elevation above mean sea level (MSL) at top of object. This value includes 15 feet added to noninterstate roads, 17 feet added to interstate roads, and 23 feet added to railroad tracks.
- 10 Height above ground level (AGL). AGL's are provided only for manmade objects appearing on the OC and equal to or greater than 200 feet AGL. AGL accuracy is 10 feet.
- 11 HAA - Height above airport
HAR - Height above approach end of reference runway
HAT - Height above reference runway touchdown zone elevation
- 12 DEND - Distance along reference runway centerline from point nearest to object (perpendicular) to approach end of runway
DTHR - Distance along reference runway centerline from point nearest to object (perpendicular) to displaced threshold
DCLN - Distance left (L) or right (R) of reference runway centerline as observed facing forward in a landing aircraft

A negative value for DEND or DTHR indicates that object is in primary on roll-out side of zero distance point.
- 13 PNTR - Penetration of indicated FAR-77 approach or primary surface (See footnote 2).

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AIRPORT ELEVATION 83

17 C 83/ 293759.575 -953927.233 1751651. 83/ 83 293755.826 -953926.879

OBJECT	LAT	LONG	A	EL	AGL	HAR	HAT	HAA	DEND	DTHR	DCLN	PNTR
POLE	293639.70	-953914.10	1A	109		26	26	26	-8135	-7755	491L	34
RAILROAD	293639.55	-953919.58	1A	104		21	21	21	-8112	-7732	8L	29
POLE	293641.34	-953914.90	1A	97		14	14	14	-7965	-7585	435L	22
RAILROAD	293642.08	-953914.24	1A	104		21	21	21	-7895	-7515	499L	29
WSK	293642.06	-953922.06	1A	88		5	5	5	-7840	-7460	189R	13
TREE	293700.57	-953917.19	1A	108		25	25	25	-6013	-5633	393L	33
POLE	293706.13	-953917.15	1A	112		29	29	29	-5453	-5073	442L	36
OL ON GS	293710.21	-953927.11	1A	123		40	40	40	-4970	-4590	400R	46
TREE	293711.71	-953918.31	1A	143		60	60	60	-4883	-4503	387L	66
OL ON LTD WSK	293724.95	-953927.34	1A	104		21	21	21	-3484	-3104	297R	25
FENCE	293726.52	-953920.69	1A	82		-1	-1	-1	-3375	-2995	301L	3
VENT ON OL HANGAR	293728.09	-953929.65	1A	109		26	26	26	-3152	-2772	474R	30
VENT ON OL HANGAR	293744.88	-953920.22	1A	122		39	39	39	-1530	-1150	494L	41
OL ON LTD WSK	293745.31	-953928.81	1A	97		14	14	14	-1424	-1044	257R	16
VENT ON HANGAR	293754.75	-953922.48	1A	113		30	30	30	-520	-140	378L	31
ROAD(N)	293755.61	-953928.98	1A	94		11	11	11	-387	-7	187R	11
WSK	293757.18	-953930.77	1A	94		11	11	11	-216	164	331R	11
ROD ON APBN	293758.05	-953922.07	1A	140		57	57	57	-191	189	442L	57
TREE	293800.31	-953921.93	1A	147		64	64	64	35	415	472L	64
ROAD(N)	293800.20	-953927.29	1A	96		13	13	13	64	444	OR	13
TREE	293800.00	-953932.51	1A	117		34	34	34	82	462	461R	34
TREE	293801.70	-953932.72	1A	120		37	37	37	253	633	465R	36
TREE	293803.09	-953922.30	1A	136		53	53	53	319	699	463L	50
OL ON LOC	293803.30	-953927.58	1A	89		6	6	6	377	757	OR	1
DME	293803.51	-953924.75	1A	100		17	17	17	378	758	251L	12
TREE	293803.96	-953928.41	1A	101		18	18	18	449	829	67R	11
TREE	293811.68	-953931.61	1A	132		49	49	49	1250	1630	284R	18
TREE	293816.21	-953924.61	1A	153		70	70	70	1656	2036	369L	27
TREE	293818.67	-953925.93	1A	158		75	75	75	1913	2293	273L	25
TREE	293822.17	-953930.97	1A	155		72	72	72	2302	2682	141R	10

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AIRPORT ELEVATION 83

35 PIR 75/ 293640.646 -953919.777 3551655. 75/ 80 293700.220 -953921.625

OBJECT	LAT	LONG	A	EL	AGL	HAR	HAT	HAA	DEND	DTHR	DCLN	PNTR
TREE	293800.00	-953932.51	1A	117		42	37	34	-8081	-6097	461L	34
ROAD(N)	293800.20	-953927.29	1A	96		21	16	13	-8063	-6079	OR	13
TREE	293800.31	-953921.93	1A	147		72	67	64	-8035	-6051	472R	64
ROD ON APBN	293758.05	-953922.07	1A	140		65	60	57	-7808	-5824	442R	57
WSK	293757.18	-953930.77	1A	94		19	14	11	-7784	-5800	331L	11
ROAD(N)	293755.61	-953928.98	1A	94		19	14	11	-7613	-5629	187L	11
VENT ON HANGAR	293754.75	-953922.48	1A	113		38	33	30	-7479	-5495	378R	31
OL ON LTD WSK	293745.31	-953928.81	1A	97		22	17	14	-6575	-4591	257L	16
VENT ON OL HANGAR	293744.88	-953920.22	1A	122		47	42	39	-6469	-4485	494R	41
VENT ON OL HANGAR	293728.09	-953929.65	1A	109		34	29	26	-4847	-2863	474L	30
FENCE	293726.52	-953920.69	1A	82		7	2	-1	-4625	-2641	301R	3
OL ON LTD WSK	293724.95	-953927.34	1A	104		29	24	21	-4515	-2531	297L	25
TREE	293711.71	-953918.31	1A	143		68	63	60	-3116	-1132	387R	66
OL ON GS	293710.21	-953927.11	1A	123		48	43	40	-3029	-1045	400L	46
POLE	293706.13	-953917.15	1A	112		37	32	29	-2546	-562	442R	36
TREE	293700.57	-953917.19	1A	108		33	28	25	-1987	-2	393R	33
WSK	293642.06	-953922.06	1A	88		13	8	5	-159	1825	189L	13
RAILROAD	293642.08	-953914.24	1A	104		29	24	21	-104	1880	499R	29
POLE	293641.34	-953914.90	1A	97		22	17	14	-35	1950	435R	22
RAILROAD	293639.55	-953919.58	1A	104		29	24	21	112	2096	8R	29
POLE	293639.70	-953914.10	1A	109		34	29	26	136	2120	491R	34
POLE	293638.52	-953916.53	1A	109		34	29	26	238	2222	268R	33
POLE	293636.19	-953921.34	1A	114		39	34	31	437	2421	174L	34
POLE	293635.01	-953923.76	1A	119		44	39	36	538	2522	397L	37
ROD ON POLE	293624.89	-953910.85	1A	105		30	25	22	1651	3635	654R	1
POLE	293621.58	-953911.20	1A	109		34	29	26	1982	3966	596R	-2
TREE	293612.25	-953925.38	1A	139		64	59	56	2817	4801	729L	12

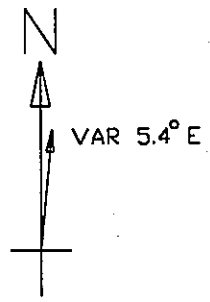
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AIRPORT ELEVATION 83

ARP 293720.111 -953923.504

OBJECT	LAT	LONG	A	EL	AGL	HAA	MAG BEARING	DISTANCE
TREE	293722.01	-953916.84	1A	123		40	6629	618
TREE	293711.30	-953915.85	1A	150		67	13723	1117
POLE	293709.46	-953915.92	1A	118		35	14243	1267
TREE	293734.86	-953931.13	1A	125		42	33016	1635
TREE	293705.05	-953912.30	1A	149		66	14134	1814
ROD ON OL TANK	293656.56	-953946.23	1A	216		133	21444	3111
TREE	293750.40	-953933.07	1A	162		79	33910	3174
ANT ON OL TWR	293649.99	-953947.16	1A	403	322	320	20904	3690
TREE	293756.37	-953934.06	1A	157		74	34019	3779
TREE	293800.21	-953933.41	1A	133		50	34225	4144
TREE	293801.32	-953921.36	1A	154		71	35712	4167
TREE	293803.18	-953934.05	1A	144		61	34231	4448
TREE	293804.09	-953920.50	1A	154		71	35801	4450
POLE	293633.82	-953926.18	1A	124		41	17729	4681
TREE	293813.14	-953920.80	1A	164		81	35709	5362
POLE	293627.91	-953910.53	1A	111		28	16220	5396
OL ON TANK	293718.86	-953800.31	1A	324	244	241	8534	7343
ANT ON OL MCWV TWR	293653.83	-954049.85	1A	283		200	24524	8070
OL ON TWR	293921.64	-954013.17	1A	378	295	295	33457	13034
OL ON TWR	293918.28	-954025.68	1A	377	295	294	32955	13136

ARPT EL 83
EL 83 ← DSPLC THR 380.



8000 X 100 PAVED

ARP (1993)

35
EL 75 ← DSPLC THR 1984.

TOUCHDOWN ZONE
RUNWAY ELEVATION

17	83
35	80

EL 75

SUGAR LAND MUNICIPAL/HULL FIELD
HOUSTON, TEXAS
(NOT TO SCALE)
(ELEVATIONS AND DISTANCES IN FEET)