

FEDERAL AVIATION ADMINISTRATION
FLIGHT STANDARDS SERVICE
TAKEOFF MINIMUMS AND OBSTACLE DEPARTURE PROCEDURES (ODP)
TITLE 14 CFR PART 97.37

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<u>CITY, STATE</u>	<u>AIRPORT</u>	<u>EFFECTIVE DATE</u>	<u>AMDT NO</u>
HAWTHORNE, CA	JACK NORTHROP FIELD/HAWTHORNE MUNI	20 JUNE 2019	5

TAKEOFF MINIMUMS:

RWY 7: 300-1 3/4 OR STANDARD WITH MINIMUM CLIMB OF 365 FEET TO 400.

RWY 25: 300-1 OR STANDARD WITH MINIMUM CLIMB OF 290 FEET TO 300.

TEXTUAL DEPARTURE PROCEDURES:

RWY 7 - CLIMBING RIGHT TURN TO 3000 HEADING 220.00 AND THE LAX VORTAC R-170 TO LIMBO INT.

RWY 25 - CLIMBING LEFT TURN TO 3000 HEADING 205.00 AND THE LAX VORTAC R-170 TO LIMBO INT.

VISUAL CLIMB OVER AIRPORT:

TAKEOFF OBSTACLE NOTES:

NOTE: RWY 7, TREES, WALL, VEHICLES ON ROAD, FENCE, LIGHTING, POLE, SIGNS, BUILDINGS BEGINNING 23 FT FROM DER, 3 FT LEFT OF CENTERLINE, UP TO 52 FT AGL/114 FT MSL.

POLE 29 FT FROM DER, 395 FT RIGHT OF CENTERLINE, 30 FT AGL/89 FT MSL.

SIGNS, POLES, WALL, FENCE, LIGHTING, VEHICLES ON ROAD, TREE, BUILDING BEGINNING 78 FT FROM DER, ON AND RIGHT OF CENTERLINE, UP TO 38 FT AGL/94 FT MSL.

TREES, POLES, VEHICLES ON ROAD, BUILDINGS, SIGNS BEGINNING 476 FT FROM DER, 39 FT LEFT OF CENTERLINE, UP TO 136 FT MSL.

BUILDINGS, POLE BEGINNING 759 FT FROM DER, 96 FT RIGHT OF CENTERLINE, UP TO 42 FT AGL/102 FT MSL.

POLE 1465 FT FROM DER, 203 FT RIGHT OF CENTERLINE, 38 FT AGL/103 FT MSL.

POLES BEGINNING 1489 FT FROM DER, 20 FT RIGHT OF CENTERLINE, UP TO 41 FT AGL/111 FT MSL.

TREES BEGINNING 2120 FT FROM DER, 110 FT LEFT OF CENTERLINE, UP TO 63 FT AGL/137 FT MSL.

TREES, POLES BEGINNING 2163 FT FROM DER, 84 FT LEFT OF CENTERLINE, UP TO 66 FT AGL/147 FT MSL.

BUILDINGS BEGINNING 2168 FT FROM DER, 264 FT RIGHT OF CENTERLINE, UP TO 36 FT AGL/116 FT MSL.

TREES, POLES BEGINNING 2704 FT FROM DER, 112 FT LEFT OF CENTERLINE, UP TO 72 FT AGL/161 FT MSL.

POLES, TREES BEGINNING 2799 FT FROM DER, 54 FT RIGHT OF CENTERLINE, UP TO 61 FT AGL/148 FT MSL.

TREES, POLES BEGINNING 2876 FT FROM DER, 27 FT LEFT OF CENTERLINE, UP TO 78 FT AGL/168 FT MSL.

POLES, TREES BEGINNING 2915 FT FROM DER, 277 FT RIGHT OF CENTERLINE, UP TO 59 FT AGL/149 FT MSL.

TREES, POLES BEGINNING 2971 FT FROM DER, 94 FT RIGHT OF CENTERLINE, UP TO 157 FT MSL.

POLES 3192 FT FROM DER, 172 FT RIGHT OF CENTERLINE, 62 FT AGL/160 FT MSL.

TREES BEGINNING 3207 FT FROM DER, 81 FT RIGHT OF CENTERLINE, UP TO 67 FT AGL/167 FT MSL.

TREES, POLES BEGINNING 3304 FT FROM DER, 8 FT LEFT OF CENTERLINE, UP TO 170 FT MSL.

TREES, POLES BEGINNING 3497 FT FROM DER, 109 FT RIGHT OF CENTERLINE, UP TO 71 FT AGL/178 FT MSL.

TREES, POLES, ANTENNA, BUILDING BEGINNING 3712 FT FROM DER, 102 FT LEFT OF CENTERLINE, UP TO 65 FT AGL/179 FT MSL.

TREES, POLES BEGINNING 3719 FT FROM DER, 2 FT RIGHT OF CENTERLINE, UP TO 74 FT AGL/188 FT MSL.

TREE 3850 FT FROM DER, 1301 FT LEFT OF CENTERLINE, 41 FT AGL/180 FT MSL.

TREES, POLES BEGINNING 3859 FT FROM DER, 23 FT LEFT OF CENTERLINE, UP TO 51 FT AGL/185 FT MSL.

TREES, POLES BEGINNING 4061 FT FROM DER, 28 FT LEFT OF CENTERLINE, UP TO 203 FT MSL.

TREE 4074 FT FROM DER, 291 FT RIGHT OF CENTERLINE, 69 FT AGL/190 FT MSL.

TREE 4079 FT FROM DER, 411 FT RIGHT OF CENTERLINE, 82 FT AGL/202 FT MSL.

TREES, POLES BEGINNING 4101 FT FROM DER, 17 FT RIGHT OF CENTERLINE, UP TO 90 FT AGL/211 FT MSL.

TREES, POLES BEGINNING 4323 FT FROM DER, 32 FT LEFT OF CENTERLINE, UP TO 52 FT AGL/212 FT MSL.

TREES, POLES, BUILDING BEGINNING 4484 FT FROM DER, 3 FT LEFT OF CENTERLINE, UP TO 66 FT AGL/235 FT MSL.

POLE, TREE BEGINNING 4932 FT FROM DER, 31 FT LEFT OF CENTERLINE, UP TO 46 FT AGL/236 FT MSL.

BUILDING, POLE BEGINNING 4949 FT FROM DER, 46 FT RIGHT OF CENTERLINE, UP TO 66 FT AGL/214 FT MSL.

TREE, POLE, BUILDING BEGINNING 4989 FT FROM DER, 1 FT RIGHT OF CENTERLINE, UP TO 220 FT MSL.

TREE, POLE, BUILDING BEGINNING 5058 FT FROM DER, 44 FT LEFT OF CENTERLINE, UP TO 241 FT MSL.

ANTENNA, TREES, BUILDINGS, SIGN, FENCE, TOWER BEGINNING 5140 FT FROM DER, 93 FT LEFT OF CENTERLINE, UP TO 55 FT AGL/243 FT MSL.

TREES, POLES BEGINNING 5202 FT FROM DER, ON AND RIGHT OF CENTERLINE, UP TO 78 FT AGL/227 FT MSL.

TREES, SIGN BEGINNING 5356 FT FROM DER, 55 FT LEFT OF CENTERLINE, UP TO 54 FT AGL/249 FT MSL.

TREES, POLES BEGINNING 5383 FT FROM DER, 62 FT RIGHT OF CENTERLINE, UP TO 102 FT AGL/257 FT MSL.

TOWERS, TRANSMISSION LINES, POLES, SIGN, BUILDINGS, TREES, ELEVATOR BEGINNING 5428 FT FROM DER, 35 FT LEFT OF CENTERLINE, UP TO 139 FT AGL/307 FT MSL.

QUALITY
CHECKED
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TOWER, TREE BEGINNING 1.2 NM FROM DER, 1711 FT LEFT OF CENTERLINE, UP TO 115 FT AGL/322 FT MSL.
 BUILDING, MONUMENT, TREES, TOWERS, ANTENNA, TRANSMISSION LINE, POLE BEGINNING 1.2 NM FROM DER, 205 FT LEFT OF CENTERLINE, UP TO 104 FT AGL/328 FT MSL.
 TREE 1.3 NM FROM DER, 16 FT RIGHT OF CENTERLINE, 76 FT AGL/278 FT MSL.
 TOWER 1.4 NM FROM DER, 824 FT RIGHT OF CENTERLINE, 116 FT AGL/289 FT MSL.
 TOWER 1.4 NM FROM DER, 317 FT RIGHT OF CENTERLINE, 119 FT AGL/302 FT MSL.

NOTE: RWY 25, SIGN 24 FT FROM DER, 100 FT LEFT OF CENTERLINE, 3 FT AGL/67 FT MSL.
 POLE, BUILDING BEGINNING 51 FT FROM DER, 302 FT RIGHT OF CENTERLINE, UP TO 38 FT AGL/105 FT MSL.
 NAVAID 72 FT FROM DER, 1 FT LEFT OF CENTERLINE, 8 FT AGL/73 FT MSL.
 BUILDING, POLES, FENCE BEGINNING 112 FT FROM DER, 183 FT LEFT OF CENTERLINE, UP TO 30 FT AGL/95 FT MSL.
 TREES, LIGHTING, FENCE, VEHICLES ON ROAD, POLES, SIGN, BUILDING, ANTENNA BEGINNING 128 FT FROM DER, ON AND RIGHT OF CENTERLINE, UP TO 48 FT AGL/114 FT MSL.
 POLE, FENCE, TREE, SIGN BEGINNING 158 FT FROM DER, 5 FT LEFT OF CENTERLINE, UP TO 38 FT AGL/102 FT MSL.
 POLE, VEHICLES ON ROAD, TREE, SIGNS BEGINNING 206 FT FROM DER, 38 FT LEFT OF CENTERLINE, UP TO 39 FT AGL/103 FT MSL.
 TREE, VEHICLES ON ROAD, SIGNS, BUILDINGS, POLES BEGINNING 258 FT FROM DER, 5 FT LEFT OF CENTERLINE, UP TO 40 FT AGL/105 FT MSL.
 POLE, ANTENNA, BUILDING, TREES BEGINNING 423 FT FROM DER, 39 FT LEFT OF CENTERLINE, UP TO 41 FT AGL/107 FT MSL.
 TREE, ANTENNAS, BUILDINGS, VEHICLES ON ROAD, POLES BEGINNING 449 FT FROM DER, 5 FT LEFT OF CENTERLINE, UP TO 122 FT MSL.
 POLES, TREES, ANTENNA BEGINNING 670 FT FROM DER, 7 FT RIGHT OF CENTERLINE, UP TO 54 FT AGL/120 FT MSL.
 TREES, POLES BEGINNING 1031 FT FROM DER, 27 FT LEFT OF CENTERLINE, UP TO 62 FT AGL/128 FT MSL.
 TREES, POLES BEGINNING 1054 FT FROM DER, 12 FT RIGHT OF CENTERLINE, UP TO 136 FT MSL.
 TREES BEGINNING 2208 FT FROM DER, 32 FT RIGHT OF CENTERLINE, UP TO 78 FT AGL/144 FT MSL.
 TREES BEGINNING 2218 FT FROM DER, 41 FT LEFT OF CENTERLINE, UP TO 65 FT AGL/131 FT MSL.
 TREE, BUILDING BEGINNING 2222 FT FROM DER, 3 FT RIGHT OF CENTERLINE, UP TO 79 FT AGL/145 FT MSL.
 TREES BEGINNING 2229 FT FROM DER, 152 FT LEFT OF CENTERLINE, UP TO 66 FT AGL/132 FT MSL.
 TREE 2239 FT FROM DER, 344 FT LEFT OF CENTERLINE, 67 FT AGL/135 FT MSL.
 TREES BEGINNING 2249 FT FROM DER, 11 FT LEFT OF CENTERLINE, UP TO 80 FT AGL/147 FT MSL.
 BUILDINGS, FENCE, TREE BEGINNING 2423 FT FROM DER, 148 FT LEFT OF CENTERLINE, UP TO 83 FT AGL/154 FT MSL.
 POLE, TREE BEGINNING 2740 FT FROM DER, 360 FT RIGHT OF CENTERLINE, UP TO 77 FT AGL/149 FT MSL.
 TREES BEGINNING 3179 FT FROM DER, 207 FT RIGHT OF CENTERLINE, UP TO 74 FT AGL/150 FT MSL.
 TREE 3222 FT FROM DER, 228 FT RIGHT OF CENTERLINE, 76 FT AGL/153 FT MSL.
 TANK 4537 FT FROM DER, 1313 FT LEFT OF CENTERLINE, 137 FT AGL/227 FT MSL.
 WATER TOWER 4539 FT FROM DER, 1321 FT LEFT OF CENTERLINE, 132 FT AGL/229 FT MSL.

CONTROLLING OBSTACLES:

RWY 7: 307 FEET MSL TOWER 335535.09N/1181833.64W (CLIMB GRADIENT/CLIMB-TO ALTITUDE), 328 FEET MSL BUILDING 335550.30/1181808.20W (CEILING), 292 FEET MSL TOWER 335547.80N/1181754.93W (VISIBILITY).
RWY 25: 229 FEET MSL WATER TOWER 335505.29N/1182128.13W

OBSTACLE MANDATING ODP ROUTE DEVELOPMENT:

10246 FEET MSL AAO 341712.00N/1173918.00W.

REMARKS:

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FLIGHT INSPECTED BY:	<i>Digitally signed by</i>	OFFICE SYMBOL:	DATE:
THOMAS E MOLOKIE	DONALD H LANIER	FICO	4/16/19
	Apr 19, 2019		

DEVELOPED BY:	<i>Digitally signed by</i>	OFFICE SYMBOL:	DATE:
JACOB MAXFIELD	JACOB MAXFIELD	AJV-A431	02/01/2019
	Mar 12, 2019		

APPROVED BY:	<i>Digitally signed by</i>	OFFICE SYMBOL:	DATE:
PATRICK MULQUEEN	DONALD H LANIER	AJV-A430	
	Apr 19, 2019		

REQUIRED EFFECTIVE DATE:
ROUTINE

COORDINATED WITH:

A4A	ALPA	AOPA	APA	HAI	NBAA
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

OTHER:

ZLA, SOCAL APP CON, WESTERN FPT, AMGR

CHANGES - REASONS:

1. CHANGED RWY 7 TAKEOFF MINIMUMS FROM "300-1 3/4 OR STANDARD WITH MINIMUM CLIMB OF 363 FEET TO 500" TO "300-1 3/4 OR STANDARD WITH MINIMUM CLIMB OF 365 FEET TO 400" - VISIBILITY AND CLIMB-TO ALTITUDE CHANGED DUE TO NEW CONTROLLING OBSTACLE; CLIMB GRADIENT ROUNDED UP.
2. CHANGED RWY 25 TAKEOFF MINIMUMS FROM "400-3 OR STANDARD WITH MINIMUM CLIMB OF 285 FEET TO 600" TO "300-1 OR STANDARD WITH MINIMUM CLIMB OF 290 FEET TO 300" - VISIBILITY AND CLIMB-TO ALTITUDE CHANGED DUE TO NEW CONTROLLING OBSTACLE; CLIMB GRADIENT CHANGED DUE TO APPLICATION OF NEW CG CRITERIA IN THE 8260.3D.
3. UPDATED TAKEOFF OBSTACLE NOTES - NEW AIRPORT SURVEY
4. CHANGED RWY 7 OBSTACLES FROM "307 FEET MSL T-L TWR 335535.09N/1181833.59W (CLIMB GRADIENT) 327 FEET MSL MONUMENT 335550.20N/1181808.14W (CLIMB-TO-ALTITUDE)" TO "307 FEET MSL TOWER 335535.09N/1181833.64W (CLIMB GRADIENT/CLIMB-TO ALTITUDE), 328 FEET MSL BUILDING 335550.30/1181808.20W (CEILING), 292 FEET MSL TOWER 335547.80N/1181754.93W (VISIBILITY)" - NEW SURVEY DATA
5. CHANGED RWY 25 CONTROLLING OBSTACLES FROM "227 FEET MSL TANK 335505.37N-1182128.12W (CLIMB GRADIENT) 462 FEET MSL BLDG 335509.04N/1182343.47W (CLIMB-TO-ALTITUDE)" TO "229 FEET MSL WATER TOWER 335505.29N/1182128.13W" - NEW SURVEY DATA

