

# Airport Layout Plans:

# ALP

## SOP 2.00

Effective October 1, 2013

&

## RPZ Interim Guidance

### Helena Airports District Office

FAA Northwest Mountain Region

October, 2013



Federal Aviation  
Administration





# ALP Submission to Helena ADO: LOGISTICS (FY14 Grants)

- Sponsor/consultant will provide one hard copy and .pdf of draft revised/as-built and updated ALP to the Helena ADO for review and comments
- The *ALP Cover Sheet* will provide a space for upload of the ADO ALP approval letter; the ADO approval box for stamp and signature is no longer needed

# ALP Submission to Helena ADO: LOGISTICS

- Once the ALP has been approved, the Helena ADO will transmit via e-mail the ALP approval letter (.pdf format)

# ALP Submission to Helena ADO: LOGISTICS

➤ The Sponsor or Consultant will upload the approval letter onto the *ALP Cover Sheet*

**U.S. Department of Transportation Federal Aviation Administration**

1100 West Lakeshore Drive  
Chicago, Illinois 60606-3598

February 14, 2012

Mr. Tomasz Richardson, A/E/C  
Executive Director  
Fort Wayne International Airport  
3801 W. Ferguson Rd.  
Fort Wayne, Indiana 46825

Fort Wayne International Airport  
Fort Wayne, Indiana  
Airport Layout Plan Approval

Dear Mr. Richardson:

Enclosed is one conditionally approved copy of the Fort Wayne International Airport Layout Plan (ALP), dated February 14, 2012 that was submitted on August 30, 2011. The letter contains or represents all prior ALP approvals. The ALP conditional approval is based upon recognition of and adherence to the following:

- The approval is not to be considered a commitment of Federal funding for the proposed development. The Federal Aviation Administration (FAA) has concerns with the proposed development for planning purposes only based on current safety, noise, and aircraft operations. Prior to consideration for Federal funding, justification must be submitted to the FAA for an eligibility determination for actual development. Actual development should comply with approved standards applicable at the time of construction. If any of the design, critical safety or aircraft group change, the ALP must be resubmitted to the FAA.
- Our approval does not infer or imply that the land in the airport vicinity is considered compatible with airport operations. Federal requirements stipulate:
  - All development programs should be reasonably consistent with the plans of land and state planning agencies for the development in the airport vicinity.
  - That fair consideration has been given to the interest of communities in or near the airport.
  - The development programs provide for the protection and enhancement of the environment, with a FAA recommendation for acquisition (in fee or in easement) of the Air Surface Protection Zones.
- The FAA offers no objection to the proposed future aircraft utilization as depicted on the ALP based on consideration of safe aircraft use or airports. The ALP has the status of "Plan on File" for the system of 14 CFR 17. Obstruction clearance was 14 CFR 105. Airport and Airway Program. A review of the aircraft landing area development was conducted according to the following 14 CFRs: 17, 102, 107, 109, 111, 115, 119, 121, 123, 135, 137, 139, 141, 142, 145, 149, 151, 155, 159, 161, 165, 169, 171, 175, 179, 181, 185, 189, 191, 195, 199, 201, 205, 209, 211, 215, 219, 221, 225, 229, 231, 235, 239, 241, 245, 249, 251, 255, 259, 261, 265, 269, 271, 275, 279, 281, 285, 289, 291, 295, 299, 301, 305, 309, 311, 315, 319, 321, 325, 329, 331, 335, 339, 341, 345, 349, 351, 355, 359, 361, 365, 369, 371, 375, 379, 381, 385, 389, 391, 395, 399, 401, 405, 409, 411, 415, 419, 421, 425, 429, 431, 435, 439, 441, 445, 449, 451, 455, 459, 461, 465, 469, 471, 475, 479, 481, 485, 489, 491, 495, 499, 501, 505, 509, 511, 515, 519, 521, 525, 529, 531, 535, 539, 541, 545, 549, 551, 555, 559, 561, 565, 569, 571, 575, 579, 581, 585, 589, 591, 595, 599, 601, 605, 609, 611, 615, 619, 621, 625, 629, 631, 635, 639, 641, 645, 649, 651, 655, 659, 661, 665, 669, 671, 675, 679, 681, 685, 689, 691, 695, 699, 701, 705, 709, 711, 715, 719, 721, 725, 729, 731, 735, 739, 741, 745, 749, 751, 755, 759, 761, 765, 769, 771, 775, 779, 781, 785, 789, 791, 795, 799, 801, 805, 809, 811, 815, 819, 821, 825, 829, 831, 835, 839, 841, 845, 849, 851, 855, 859, 861, 865, 869, 871, 875, 879, 881, 885, 889, 891, 895, 899, 901, 905, 909, 911, 915, 919, 921, 925, 929, 931, 935, 939, 941, 945, 949, 951, 955, 959, 961, 965, 969, 971, 975, 979, 981, 985, 989, 991, 995, 999, 1001, 1005, 1009, 1011, 1015, 1019, 1021, 1025, 1029, 1031, 1035, 1039, 1041, 1045, 1049, 1051, 1055, 1059, 1061, 1065, 1069, 1071, 1075, 1079, 1081, 1085, 1089, 1091, 1095, 1099, 1101, 1105, 1109, 1111, 1115, 1119, 1121, 1125, 1129, 1131, 1135, 1139, 1141, 1145, 1149, 1151, 1155, 1159, 1161, 1165, 1169, 1171, 1175, 1179, 1181, 1185, 1189, 1191, 1195, 1199, 1201, 1205, 1209, 1211, 1215, 1219, 1221, 1225, 1229, 1231, 1235, 1239, 1241, 1245, 1249, 1251, 1255, 1259, 1261, 1265, 1269, 1271, 1275, 1279, 1281, 1285, 1289, 1291, 1295, 1299, 1301, 1305, 1309, 1311, 1315, 1319, 1321, 1325, 1329, 1331, 1335, 1339, 1341, 1345, 1349, 1351, 1355, 1359, 1361, 1365, 1369, 1371, 1375, 1379, 1381, 1385, 1389, 1391, 1395, 1399, 1401, 1405, 1409, 1411, 1415, 1419, 1421, 1425, 1429, 1431, 1435, 1439, 1441, 1445, 1449, 1451, 1455, 1459, 1461, 1465, 1469, 1471, 1475, 1479, 1481, 1485, 1489, 1491, 1495, 1499, 1501, 1505, 1509, 1511, 1515, 1519, 1521, 1525, 1529, 1531, 1535, 1539, 1541, 1545, 1549, 1551, 1555, 1559, 1561, 1565, 1569, 1571, 1575, 1579, 1581, 1585, 1589, 1591, 1595, 1599, 1601, 1605, 1609, 1611, 1615, 1619, 1621, 1625, 1629, 1631, 1635, 1639, 1641, 1645, 1649, 1651, 1655, 1659, 1661, 1665, 1669, 1671, 1675, 1679, 1681, 1685, 1689, 1691, 1695, 1699, 1701, 1705, 1709, 1711, 1715, 1719, 1721, 1725, 1729, 1731, 1735, 1739, 1741, 1745, 1749, 1751, 1755, 1759, 1761, 1765, 1769, 1771, 1775, 1779, 1781, 1785, 1789, 1791, 1795, 1799, 1801, 1805, 1809, 1811, 1815, 1819, 1821, 1825, 1829, 1831, 1835, 1839, 1841, 1845, 1849, 1851, 1855, 1859, 1861, 1865, 1869, 1871, 1875, 1879, 1881, 1885, 1889, 1891, 1895, 1899, 1901, 1905, 1909, 1911, 1915, 1919, 1921, 1925, 1929, 1931, 1935, 1939, 1941, 1945, 1949, 1951, 1955, 1959, 1961, 1965, 1969, 1971, 1975, 1979, 1981, 1985, 1989, 1991, 1995, 1999, 2001, 2005, 2009, 2011, 2015, 2019, 2021, 2025, 2029, 2031, 2035, 2039, 2041, 2045, 2049, 2051, 2055, 2059, 2061, 2065, 2069, 2071, 2075, 2079, 2081, 2085, 2089, 2091, 2095, 2099, 2101, 2105, 2109, 2111, 2115, 2119, 2121, 2125, 2129, 2131, 2135, 2139, 2141, 2145, 2149, 2151, 2155, 2159, 2161, 2165, 2169, 2171, 2175, 2179, 2181, 2185, 2189, 2191, 2195, 2199, 2201, 2205, 2209, 2211, 2215, 2219, 2221, 2225, 2229, 2231, 2235, 2239, 2241, 2245, 2249, 2251, 2255, 2259, 2261, 2265, 2269, 2271, 2275, 2279, 2281, 2285, 2289, 2291, 2295, 2299, 2301, 2305, 2309, 2311, 2315, 2319, 2321, 2325, 2329, 2331, 2335, 2339, 2341, 2345, 2349, 2351, 2355, 2359, 2361, 2365, 2369, 2371, 2375, 2379, 2381, 2385, 2389, 2391, 2395, 2399, 2401, 2405, 2409, 2411, 2415, 2419, 2421, 2425, 2429, 2431, 2435, 2439, 2441, 2445, 2449, 2451, 2455, 2459, 2461, 2465, 2469, 2471, 2475, 2479, 2481, 2485, 2489, 2491, 2495, 2499, 2501, 2505, 2509, 2511, 2515, 2519, 2521, 2525, 2529, 2531, 2535, 2539, 2541, 2545, 2549, 2551, 2555, 2559, 2561, 2565, 2569, 2571, 2575, 2579, 2581, 2585, 2589, 2591, 2595, 2599, 2601, 2605, 2609, 2611, 2615, 2619, 2621, 2625, 2629, 2631, 2635, 2639, 2641, 2645, 2649, 2651, 2655, 2659, 2661, 2665, 2669, 2671, 2675, 2679, 2681, 2685, 2689, 2691, 2695, 2699, 2701, 2705, 2709, 2711, 2715, 2719, 2721, 2725, 2729, 2731, 2735, 2739, 2741, 2745, 2749, 2751, 2755, 2759, 2761, 2765, 2769, 2771, 2775, 2779, 2781, 2785, 2789, 2791, 2795, 2799, 2801, 2805, 2809, 2811, 2815, 2819, 2821, 2825, 2829, 2831, 2835, 2839, 2841, 2845, 2849, 2851, 2855, 2859, 2861, 2865, 2869, 2871, 2875, 2879, 2881, 2885, 2889, 2891, 2895, 2899, 2901, 2905, 2909, 2911, 2915, 2919, 2921, 2925, 2929, 2931, 2935, 2939, 2941, 2945, 2949, 2951, 2955, 2959, 2961, 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3519, 3521, 3525, 3529, 3531, 3535, 3539, 3541, 3545, 3549, 3551, 3555, 3559, 3561, 3565, 3569, 3571, 3575, 3579, 3581, 3585, 3589, 3591, 3595, 3599, 3601, 3605, 3609, 3611, 3615, 3619, 3621, 3625, 3629, 3631, 3635, 3639, 3641, 3645, 3649, 3651, 3655, 3659, 3661, 3665, 3669, 3671, 3675, 3679, 3681, 3685, 3689, 3691, 3695, 3699, 3701, 3705, 3709, 3711, 3715, 3719, 3721, 3725, 3729, 3731, 3735, 3739, 3741, 3745, 3749, 3751, 3755, 3759, 3761, 3765, 3769, 3771, 3775, 3779, 3781, 3785, 3789, 3791, 3795, 3799, 3801, 3805, 3809, 3811, 3815, 3819, 3821, 3825, 3829, 3831, 3835, 3839, 3841, 3845, 3849, 3851, 3855, 3859, 3861, 3865, 3869, 3871, 3875, 3879, 3881, 3885, 3889, 3891, 3895, 3899, 3901, 3905, 3909, 3911, 3915, 3919, 3921, 3925, 3929, 3931, 3935, 3939, 3941, 3945, 3949, 3951, 3955, 3959, 3961, 3965, 3969, 3971, 3975, 3979, 3981, 3985, 3989, 3991, 3995, 3999, 4001, 4005, 4009, 4011, 4015, 4019, 4021, 4025, 4029, 4031, 4035, 4039, 4041, 4045, 4049, 4051, 4055, 4059, 4061, 4065, 4069, 4071, 4075, 4079, 4081, 4085, 4089, 4091, 4095, 4099, 4101, 4105, 4109, 4111, 4115, 4119, 4121, 4125, 4129, 4131, 4135, 4139, 4141, 4145, 4149, 4151, 4155, 4159, 4161, 4165, 4169, 4171, 4175, 4179, 4181, 4185, 4189, 4191, 4195, 4199, 4201, 4205, 4209, 4211, 4215, 4219, 4221, 4225, 4229, 4231, 4235, 4239, 4241, 4245, 4249, 4251, 4255, 4259, 4261, 4265, 4269, 4271, 4275, 4279, 4281, 4285, 4289, 4291, 4295, 4299, 4301, 4305, 4309, 4311, 4315, 4319, 4321, 4325, 4329, 4331, 4335, 4339, 4341, 4345, 4349, 4351, 4355, 4359, 4361, 4365, 4369, 4371, 4375, 4379, 4381, 4385, 4389, 4391, 4395, 4399, 4401, 4405, 4409, 4411, 4415, 4419, 4421, 4425, 4429, 4431, 4435, 4439, 4441, 4445, 4449, 4451, 4455, 4459, 4461, 4465, 4469, 4471, 4475, 4479, 4481, 4485, 4489, 4491, 4495, 4499, 4501, 4505, 4509, 4511, 4515, 4519, 4521, 4525, 4529, 4531, 4535, 4539, 4541, 4545, 4549, 4551, 4555, 4559, 4561, 4565, 4569, 4571, 4575, 4579, 4581, 4585, 4589, 4591, 4595, 4599, 4601, 4605, 4609, 4611, 4615, 4619, 4621, 4625, 4629, 4631, 4635, 4639, 4641, 4645, 4649, 4651, 4655, 4659, 4661, 4665, 4669, 4671, 4675, 4679, 4681, 4685, 4689, 4691, 4695, 4699, 4701, 4705, 4709, 4711, 4715, 4719, 4721, 4725, 4729, 4731, 4735, 4739, 4741, 4745, 4749, 4751, 4755, 4759, 4761, 4765, 4769, 4771, 4775, 4779, 4781, 4785, 4789, 4791, 4795, 4799, 4801, 4805, 4809, 4811, 4815, 4819, 4821, 4825, 4829, 4831, 4835, 4839, 4841, 4845, 4849, 4851, 4855, 4859, 4861, 4865, 4869, 4871, 4875, 4879, 4881, 4885, 4889, 4891, 4895, 4899, 4901, 4905, 4909, 4911, 4915, 4919, 4921, 4925, 4929, 4931, 4935, 4939, 4941, 4945, 4949, 4951, 4955, 4959, 4961, 4965, 4969, 4971, 4975, 4979, 4981, 4985, 4989, 4991, 4995, 4999, 5001, 5005, 5009, 5011, 5015, 5019, 5021, 5025, 5029, 5031, 5035, 5039, 5041, 5045, 5049, 5051, 5055, 5059, 5061, 5065, 5069, 5071, 5075, 5079, 5081, 5085, 5089, 5091, 5095, 5099, 5101, 5105, 5109, 5111, 5115, 5119, 5121, 5125, 5129, 5131, 5135, 5139, 5141, 5145, 5149, 5151, 5155, 5159, 5161, 5165, 5169, 5171, 5175, 5179, 5181, 5185, 5189, 5191, 5195, 5199, 5201, 5205, 5209, 5211, 5215, 5219, 5221, 5225, 5229, 5231, 5235, 5239, 5241, 5245, 5249, 5251, 5255, 5259, 5261, 5265, 5269, 5271, 5275, 5279, 5281, 5285, 5289, 5291, 5295, 5299, 5301, 5305, 5309, 5311, 5315, 5319, 5321, 5325, 5329, 5331, 5335, 5339, 5341, 5345, 5349, 5351, 5355, 5359, 5361, 5365, 5369, 5371, 5375, 5379, 5381, 5385, 5389, 5391, 5395, 5399, 5401, 5405, 5409, 5411, 5415, 5419, 5421, 5425, 5429, 5431, 5435, 5439, 5441, 5445, 5449, 5451, 5455, 5459, 5461, 5465, 5469, 5471, 5475, 5479, 5481, 5485, 5489, 5491, 5495, 5499, 5501, 5505, 5509, 5511, 5515, 5519, 5521, 5525, 5529, 5531, 5535, 5539, 5541, 5545, 5549, 5551, 5555, 5559, 5561, 5565, 5569, 5571, 5575, 5579, 5581, 5585, 5589, 5591, 5595, 5599, 5601, 5605, 5609, 5611, 5615, 5619, 5621, 5625, 5629, 5631, 5635, 5639, 5641, 5645, 5649, 5651, 5655, 5659, 5661, 5665, 5669, 5671, 5675, 5679, 5681, 5685, 5689, 5691, 5695, 5699, 5701, 5705, 5709, 5711, 5715, 5719, 5721, 5725, 5729, 5731, 5735, 5739, 5741, 5745, 5749, 5751, 5755, 5759, 5761, 5765, 5769, 5771, 5775, 5779, 5781, 5785, 5789, 5791, 5795, 5799, 5801, 5805, 5809, 5811, 5815, 5819, 5821, 5825, 5829, 5831, 5835, 5839, 5841, 5845, 5849, 5851, 5855, 5859, 5861, 5865, 5869, 5871, 5875, 5879, 5881, 5885, 5889, 5891, 5895, 5899, 5901, 5905, 5909, 5911, 5915, 5919, 5921, 5925, 5929, 5931, 5935, 5939, 5941, 5945, 5949, 5951, 5955, 5959, 5961, 5965, 5969, 5971, 5975, 5979, 5981, 5985, 5989, 5991, 5995, 5999, 6001, 6005, 6009, 6011, 6015, 6019, 6021, 6025, 6029, 6031, 6035, 6039, 6041, 6045, 6049, 6051, 6055, 6059, 6061, 6065, 6069, 6071, 6075, 6079, 6081, 6085, 6089, 6091, 6095, 6099, 6101, 6105, 6109, 6111, 6115, 6119, 6121, 6125, 6129, 6131, 6135, 6139, 6141, 6145, 6149, 6151, 6155, 6159, 6161, 6165, 6169, 6171, 6175, 6179, 6181, 6185, 6189, 6191, 6195, 6199, 6201, 6205, 6209, 6211, 6215, 6219, 6221, 6225, 6229, 6231, 6235, 6239, 6241, 6245, 6249, 6251, 6255, 6259, 6261, 6265, 6269, 6271, 6275, 6279, 6281, 6285, 6289, 6291, 6295, 6299, 6301, 6305, 6309, 6311, 6315, 6319, 6321, 6325, 6329, 6331, 6335, 6339, 6341, 6345, 6349, 6351, 6355, 6359, 6361, 6365, 6369, 6371, 6375, 6379, 6381, 6385, 6389, 6391, 6395, 6399, 6401, 6405, 6409, 6411, 6415, 6419, 6421, 6425, 6429, 6431, 6435, 6439, 6441, 6445, 6449, 6451, 6455, 6459, 6461, 6465, 6469, 6471, 6475, 6479, 6481, 6485, 6489, 6491, 6495, 6499, 6501, 6505, 6509, 6511, 6515, 6519, 6521, 6525, 6529, 6531, 6535, 6539, 6541, 6545, 6549, 6551, 6555, 6559, 6561, 6565, 6569, 6571, 6575, 6579, 6581, 6585, 6589, 6591, 6595, 6599, 6601, 6605, 6609, 6611, 6615, 6619, 6621, 6625, 6629, 6631, 6635, 6639, 6641, 6645, 6649, 6651, 6655, 6659, 6661, 6665, 6669, 6671, 6675, 6679, 6681, 6685, 6689, 6691, 6695, 6699, 6701, 6705, 6709, 6711, 6715, 6719, 6721, 67

# ALP Submission to Helena ADO: LOGISTICS

- The consultant will provide a final signed hard copy back to the ADO along with the final signed copy in an electronic .pdf format
- The consultant will send the final electronic .pdf version and hard copies to all sponsors and required agencies; ADO will advise number of hard copies needed

# Airport Layout Plans SOP 2.00

This guidance outlines the FAA process to promote consistency across FAA offices regarding FAA review and approval of ALPs

# FAA-ARP ALP SOP 2.00

- This SOP is not intended to replace every action related to ALPs
- The scope of this SOP is limited to ALP review and approval only



FAA  
Airports

**ARP SOP  
2.00**

Effective Date:  
October 1, 2013

**Standard Operating Procedure (SOP)**

**Standard Procedure for FAA Review and Approval of Airport Layout Plans (ALPs)**

**1. PURPOSE**

This SOP establishes uniform procedures for reviewing and approving Airport Layout Plans (ALPs). ALPs are drawings used to graphically depict current and future airport facilities. Standards for ALPs can be found in Advisory Circular 150/5070-6B, Airport Master Plans. The term Airport Layout Plan typically refers to a single document or drawing covering the entire airport. It also refers to the set of drawings which typically consists of:

a. Cover Sheet	h. Airport Land Use Drawing
b. ALP Drawing	i. Off-Airport Land Use Drawing (as needed)
c. Data Sheet	j. Airport Property Map / Exhibit A
d. Facilities Layout Plan	k. Runway Departure Surface Drawing
e. Terminal Area Plan (as needed)	l. Utility Drawing
f. Airport Airspace Drawing	m. Airport Access Plans
g. Inner Portion of the Approach Surface Drawing	n. Other Plan

**2. SCOPE**

The scope of this SOP is limited to ALP review and approval. This SOP is not intended to discuss or describe every action related to ALPs. The primary content of this SOP is an instructive review checklist (Appendix A), standard ALP approval letters (Appendix B), and a General ALP Process Chart (Appendix C). This SOP does not address electronic or eALPs.

**3. CANCELLATION**

This SOP does not cancel a previous version.

# Disclaimer!

- This presentation includes information about “legacy” ALPs
- It does not include electronic ALPs (eALP), but...

***Get ready – eALP is coming!***

- Most of the following will apply to eALP as well

# Basic References Needed to Prepare an ALP

- FAA Airport Layout Plan Checklist (ARP SOP)
- AC 150/5070-6B – AIRPORT MASTER PLANS (for content, esp. chapter 10)
- AC 150/5300-13A – AIRPORT DESIGN (for design standards)
- Federal Aviation Regulation (FAR) Part 77 – SAFE, EFFICIENT USE AND PRESERVATION OF THE NAVIGABLE AIRSPACE (for airspace standards)

# Basic References Needed to Prepare an ALP (cont.)

- AC 150/5190-4A -- *A MODEL ZONING ORDINANCE TO LIMIT HEIGHT OF OBJECTS AROUND AIRPORTS* (Appendix 4 – example airspace plan)
- FAA Order 5050.4B – *NATIONAL ENVIRONMENTAL POLICY ACT (NEPA) IMPLEMENTING INSTRUCTIONS FOR AIRPORT ACTIONS*
- FAA Order 5100.38C – *AIRPORT IMPROVEMENT PROGRAM HANDBOOK*

# FAA-ARP ALP SOP 2.00

- National standard operating procedure, or **SOP**, for the preparation, review and approval of ALP sets of drawings
- ALP SOP issued by FAA Headquarters, Office of Airports (ARP)



FAA  
Airports

**ARP SOP  
2.00**

Effective Date:  
October 1, 2013

**Standard Operating Procedure (SOP)**  
**Standard Procedure for FAA Review and Approval of Airport Layout Plans (ALPs)**

**1. PURPOSE**  
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**3. CANCELLATION**  
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# FAA-ARP ALP SOP (cont.)

- The SOP consists of two sections and three appendices.
- Section 1: Roles and Responsibilities (1½ pages)
- Section 2: Procedures and Process, including the Approval Process (1 page)
- Appendix A: ALP Review Checklist (45 pages)
- Appendix B: Sample ALP approval letters (11 pages)
- Appendix C: Visual ALP process chart

# ALP: SOP

Once an ALP arrives at the FAA it should be accompanied by:

- Any required Narrative Report
- A completed review checklist (Appendix A of the SOP)

# Keeping the ALP Current

- **Assurance no. 29:** The sponsor agrees to “keep up to date at all times a layout plan of the airport”
- The **AIP HANDBOOK** requires a proposed AIP project to be depicted on the approved ALP before that project can be approved

# Interim Runway Protection Zone Guidance

Addresses recurrent questions about what constitutes a compatible land use and how to evaluate proposed land uses that would reside in an RPZ

# RPZ: Interim Guidance

- The interim guidance only addresses the introduction of **new or modified** land uses to an RPZ and proposed changes to the RPZ size or location
- The RO and ADO staff will still continue to work with sponsors to remove or mitigate the risk of any existing incompatible land uses in the RPZ

# New or Modified Land Uses in the RPZ: Interim Guidance

Regional and ADO staff must consult with HQ when any land uses described in **Table 1** would enter limits of an RPZ as a result of:

1. An airfield project(e.g. runway extension, runway shift)
2. A change in the critical design aircraft that increases the dimensions of the RPZ
3. A new or revised instrument approach procedure that increases the RPZ dimensions
4. A local development proposal in the RPZ

# Land Uses Requiring Coordination with HQ

**Table 1: Land Uses Requiring Coordination with APP-400**

- Buildings and structures (Examples include, but are not limited to: residences, schools, churches, hospitals or other medical care facilities, commercial/industrial buildings, etc.)
- Recreational land use (Examples include, but are not limited to: golf courses, sports fields, amusement parks, other places of public assembly, etc.)
- Transportation facilities. Examples include, but are not limited to:
  - Rail facilities – light or heavy, passenger or freight
  - Public roads/highways
  - Vehicular parking facilities
- Fuel storage facilities (above and below ground)
- Hazardous material storage (above and below ground)
- Wastewater treatment facilities
- Above-ground utility infrastructure (i.e. electrical substations), including any type of solar panel installations.



# RPZ Alternatives Analysis

The document should identify alternatives that could:

1. Avoid introducing the land use into the RPZ
2. Minimize the impact of the land use in the RPZ
3. Mitigate risk to people and property on the ground

# RPZ Alternatives Analysis

## Alternative Analysis:

**Alternative 1:** Do nothing. Maintain the existing runway length and RPZ location. Both Eastern Boulevard and the AMTRAK lines will penetrate the Runway 15 RPZ and boats (with masts as tall as 60 feet) will penetrate the Runway 33 RPZ. The runway length will remain at 6,996 feet. Under this option, the extended RSA on Runway 33 would remain.

Cost: None.

Practicability: This alternative is practicable to implement.

**Alternative 2:** Reduce the runway length approx. 2,046 feet to remove Eastern Boulevard and AMTRAK lines from penetrating the Runway 15 RPZ and the boats from penetrating the Runway 33RPZ. No other incompatible uses would be introduced into the relocated RPZ. The runway length would become 4,950 feet. There would be an impact to some users due to the reduced length.

Cost: Not identified but minimal.

Practicability: This alternative is practicable to implement.

**Alternative 3:** Permit the extension of the runway. Both Eastern Boulevard and AMTRAK lines will still penetrate the RPZ. Under this option, the roadway and rail lines will be approx. 600 feet closer to the runway landing threshold, the boats will be approx. 400 further away from the runway landing threshold. The runway length will become 7,430 feet. The runway will meet RSA standards.

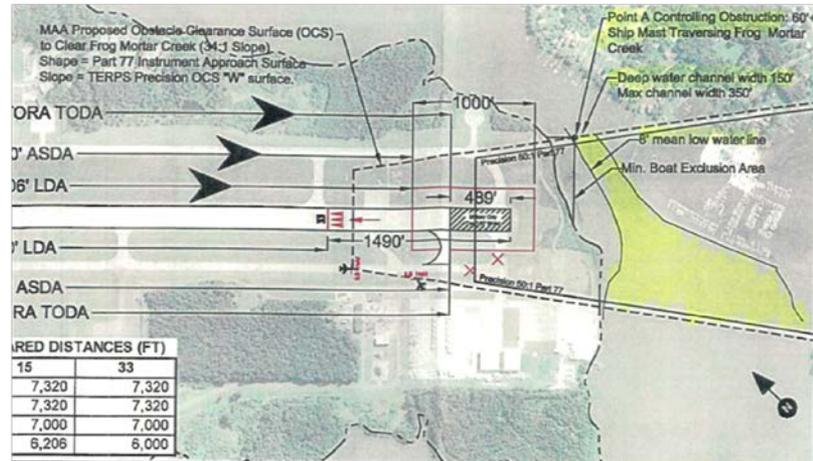
Cost: None beyond the runway extension cost itself.

Practicability: This alternative is practicable to implement.

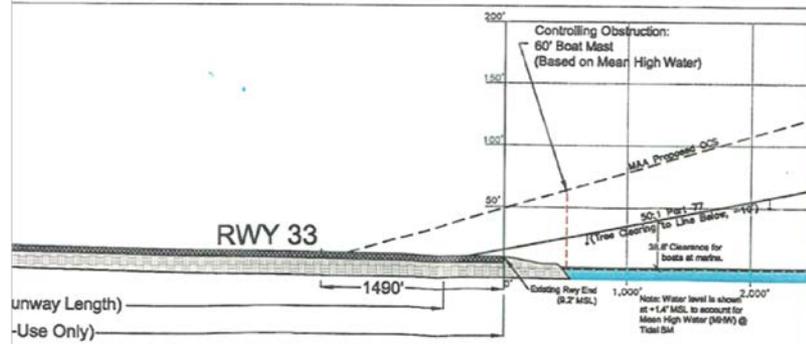
**Alternative 4:** Relocate the AMTRAK lines and Eastern Boulevard further west outside the RPZ. Cost: No estimate is available, but moving the AMTRAK lines and a multilane highway would be costly and complicated. The runway length would be at least 6,996 feet. Practicability: May prove not practicable.

**Washington ADO Recommendation:** Alternative 3. Alternative 3 decreases the distance of the roadway and passenger rail to the runway landing threshold, increases the distance of the boats from the Runway 33 landing threshold, and provides standard RSA. We believe the proposal provides an equivalent level of safety to what exists today.

**Timeline for a response:** The Sponsor desires to start the environmental assessment (EA) for the proposed runway extension in January 2013 and has recently initiated the scoping effort for the EA for state and federal regulatory agencies.



Source: Woolpert Planimetric Mapping, HNTB Analysis



Vertical Scale 1" = 80'

	2200 SOUTH QUINCY STREET, SUITE 200 ARLINGTON, VIRGINIA 22206 PH: (703) 824-9100 FAX: (703) 671-6270	Runway 15-33 Length Analysis - Preferred Option	DATE: Feb 01, 2008
	MARTIN STATE AIRPORT BALTIMORE, MARYLAND		FIGURE 1

Terry J. Page, Manager

# RPZ Alternatives Analysis

Documentation of the alternatives should include:

- A description of each alternative; narrative; exhibits; figures, etc.
- Full cost estimates, regardless of funding sources
- A practicability assessment
- Identification of preferred alternative

(Con't)

# RPZ Alternatives Analysis

- Identification of all Federal, State and Local transportation agencies involved
- Analysis of specific portions and percentages of the RPZ affected
- Analysis of (and issues regarding) sponsor control of the land within the RPZ
- Any other relevant factors for HQ consideration

# RPZ Interim Guidance

- The Office of Airports is developing a new guidance document that will clarify FAA policy regarding land uses in the RPZ
- RPZ issues will also be included in the updated Land Use Compatibility Advisory Circular
- Publication is set for 2014

# Runways needing re-numbering by 2015 due to MagVar

- For Part 139 airports, in addition to re-numbering the runway ends, the signage/marketing plans, ACMs and emergency plans will all have to be revised
- Priority List is being created by ATO Flight Procedures to begin process
- Helena ADO will work with identified airports to develop a plan to re-number runways and complete all associated processes required by FAA Lines of Business

# Runways needing re-numbering by 2015 due to MagVar

## Idaho: 8 Airports

- Burley
- Challis
- Driggs
- Grangeville
- Idaho Falls
- Preston
- Sandpoint
- Twin Falls

# Runways needing re-numbering by 2015 due to MagVar

## Montana: 19 Airports

- Choteau
- Circle
- Cut Bank
- Deer Lodge
- Eureka
- Forsyth
- Glasgow
- Glendive
- Great Falls
- Hamilton
- Helena
- Miles City
- Missoula
- Plentywood
- Ronan
- Roundup
- Shelby
- Sidney
- Thompson Falls