

Fahn, Patrick J.

From: Luke B. Toso <ltoso@wenck.com>
Sent: Wednesday, November 07, 2012 2:02 PM
To: Fahn, Patrick J.
Cc: Daniel McCourtney (ALLETE) (dmccourtney@allete.com); Kevin J. Magstadt
Subject: Bision I and Bision II Construction Inspections
Attachments: SKMBT_C22012110701540.pdf

Good afternoon Patrick,

Attached, please find a copy of my field notes from the construction inspection for Bison I and Bison II (PU-09-151 and PU-11-57, respectively). The inspection was completed today and no outstanding non-compliance issues were noted; the project was constructed according to the PSC Order. A full inspection report will be submitted for both of these projects. Please let me know if you have any questions.

Luke

Luke B. Toso, Botanist/Natural Resources Specialist
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Bison B - 3.0 MW
 Bison A - 2.3 MW

1963 - NW - Bison I laydown yard. Already reclaimed by Allate + Farmer. Looked good

1964 - S - Bison II, 203 Access rd - recent rains + crane mobilization tore up
 65 - W - " road. Atypical of road conditions

Grouped in a circuit of seven

66 - Inside B205

67 - " "

68 - W " "

69 - E - crane path - to build - vegetation ripped up, compactor moves over, crane
 70 - W - Access road walks, then area disced and reseeded.

Wind delays occur at +50mph winds - no one enters towers.

71 - W - Access gate for Bison I turbine

72 - NW - B1-30 turbine + pad

73 - W B1-2 turbine + pad

74 - E B1-1

75 - SW } substation and O+M yard.
 76 - SW }

Collector lines 4ft deep

77 - E - Turn around for trucks, reclaimed

78 - NE - crane path

79 - SW - turn around

80 - SW - turn "

81 - S - culvert

82 - NW - laydown yard

83 - S - Bison I turbine 2S

84 - S - cable guard

85 - S - tower 20, Bison I

86 - S - culvert

87 - SW - "

88 - SE - tower ~~20~~ 7

Tree + Shrub Mitigation

IA + Transmission line - ground mitigation pond - needed to mitigate for Bison I
 IB + Bison II - separate planting only.

89 - E } IB + II Mitigation
 90 - E }

- 8200A
 91 - SE - Substation
 92 - NE - Tree mitigation for 1B + 11
 93 - SE
 94 - SEE - "

15 ft b/d collector lines, bored under all roads, marked @ rd crossings

- 95 - Turbine ³² for Bison I
 96 - N - MP road built for project
 97 - NW - Turbine 213 for Bison II
 98 - NE - Culvert @ turbine 229, Bison I
 99 - SW - Bison II tower 210, Feeder via Sears.
 2000 - N - Feeder lines
 01 - N - Improved section line road.
 02 - N - 232, 233, 234

Mag chloride - 500# either side of residence
 2 H₂O trucks

- 03 - N - Avoided wetland by 228
 04 - NE
 05 > SE - Laydown yard for Bison II
 06
 07 - SW - 228, 229
 08 - W - Road subgrade
 09 - E - Turbine 226

50m of road to maintain
 10 - SW tower 217

transformation

Mike Pentecost - Project Manager II, III, 11B
 Ken Bensch - Project Manager

2:1 Ratio for dirt diverters

HCP - who coordinated for whoppers

Wetland → Conservation Offset Project completed this fall

creates more habitat for owl water fowl w/in Wharf area
 100% 100%