

Hamre, John G.

From: Hamre, John G.
Sent: Thursday, November 08, 2012 9:23 AM
To: Hamre, John G.
Subject: FW: Bison I and Bison II Construction Inspections
Attachments: SKMBT_C22012110701540.pdf; Patrick Fahn.vcf

From: Luke B. Toso [<mailto: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: Bison I and Bison II Construction Inspections

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

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106 PU-11-57 Filed: 11/7/2012 Pages: 3
Field notes from construction inspection for Bison I and Bison II

Wenck Associates, Inc.

Luke Toso

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172 PU-09-151 Filed: 11/7/2012 Pages: 3
Field notes from construction inspection for Bison I and Bison II

Wenck Associates, Inc.

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Bison B - 3.0 MW
 Bison A - 2.3 MW

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

1964 - S - Bison II, 203 Access rd - recent rains + crane mobilization - lots 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 walks, then area disc'd and reseeded.

70 - W - Access road

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 - SWW } Substation and O+M yard.
 76 - SWW }

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 2-S

84 - S - cable gland

85 - S - Tower 20, Bison I

86 - S - culvert

87 - SW - "

88 - SE - Tower 20, F

Tree + Shrub Mitigation

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

IB + Bison II - separate planting

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

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

15 ft h/l 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 215 for Bison II
 98 - NE - Culvert @ turbine 29, Bison I
 99 - SW - Bison II tower 210, feeder line Secs.
 2000 - N - Feeder lines
 01 - N - Improved section line road.
 02 - N 232, 233, 234

Magnesium 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 228 228
 08 - W - Road subgrade
 09 - E - Turbine 226
 10 - SW Tower 217
 50m of road to Mangina

1/2 mile
 Mike Pantalos - Project Manager II III, IB
 Ken Bencit - Project Manager

2:1 Ratio for bird quarters

HCP - who responsible for whoops

Wetland Conservation Offset Project completed this fall

creates more habitat for owl winter food w/in Wharf Ag/Env
 coordination