

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 Alete + 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, Retainer
 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 - cattle guard
 85 - S - tower 20, Bison I
 86 - S - culvert
 87 - SW - "
 88 - SE - tower part 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 }

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

15 ft h/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 29, Bison I
 99 - SW - Bison II tower 210, Feeder line scars.
 2000 - N - Feeder lines
 01 - N - Improved section line road.
 02 - N - 232, 233, 234

Mag chloride - 500ft 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 - Pond avoided
 09 - E - Turbine 226

50mi of road to maintain
 10 - SW tower 217

1 construction
 Mike Pontius - Project Manager II III, 11B
 Ken Bercit - Project Manager

2:1 Ratio for bird diverters

HCP - when construction for whoppers

Wetland → Conservation Offset Project Completed this fall

crossed w/ Dick's WMA in 10/11/11
 • creates more habitat for any water fowl w/in Whoppering area
 COORDINATOR