A0003694

From: Richardson, James H MVN
Sent: Monday, January 24, 2000 5:18 PM
To: Wright, Thomas W MVN
Cc: Caver, William W MVN; Grieshaber, John B MVN
Subject: FW: Level-3 Permit

Wade,

1) The Corps will allow directional drilling if the applicant can demonstrate his ability to understand and meet the Corps drilling criteria (Attached). It is a very rigorous engineering solution which must be presented to provide some security for the flood protection system. To provide a fall back (fail safe) for the flood protection system the applicant has to demonstrate an ability to perform a replacement (as shown in our criteria) of the facility should hydraulic drilling material return to the ground / flood protection surface.

2) The use of multiclustered innerducts creates issues which must be addressed by the applicant in any crossing procedure which is ultimately permitted. The multilines in a single conductor makes water proofing extremely difficult for the applicant however he must address this as a permit application issue to be solved prior to our issuing a letter of no objection to the levee board. Level-3 is familiar with our requirements here.

3) The design of the crossing is a responsibility of the permit applicant and the Corps will be receptive to a directional drilling operation however many questions must be addressed by the applicant to assure the flood protection water tightness.

4) We do not specify the depth. The guidelines are used to determine the required depth. Level-3 should determine Quest's location and provide some minimum distance separation.

5) It is also permissible to pass the casing through a sleeve in the sheet pile below the concrete. This will also require satisfying Paragraph 2) above.

6) The fact that another company has directional drilled a line parallel to this facility and no apparent damage was done is irrelevant as that line has no permit and will be subjected to very stringent after the fact permit procedures.

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Jim,

-----Original Message-----
From: Wright, Thomas W MVN
Sent: Thursday, January 20, 2000 10:50 AM
To: Richardson, James H MVN
Cc: Grieshaber, John B MVN; Danflous, Louis E Jr MVN; Keller, Brian S MVN
Subject: Level-3 Permit

Jim,

Reference my field trip on 18 Jan 00 with Robert Wortham of Level-3 and Gilbert Network (installer).

The installer would like to know if they can directionally drill under the floodgate monolith and sheetpile on the West Side of the canal.
Secondly, what depth requirement would Geotec have on a drilling operation. This is their first option.

Second option would be to place a sleeve on the cutoff wall beneath the storage monolith gate. This would require excavation on both sides of the storage

monolith and a subsequent excavation plan.

Fiber Optic info: The casing is 14-inch dia. and will house 26-innerducts (similar to Hwy 90 installation). With such a large casing they can not make the bends in the line to offset or utilize the levee as a crossing surface.

As I told you yesterday, the Quest line will be adjacent to where they want to place their line. Due to the size of the hole (being 15-16inches), we need to consider the subsurface condition based on the Quest drilling operation and than say "do we want them next to it adding additional pour pressure". Level-3 combine with Quest could create a weak stratum beneath the wall and canal. It is your call. Let me add, they know Quest has directionally drilled, so why can't they?

Anyway, please give this a fast answer so I can get on with something else. I know you are busy right now.

Thanks

Cavér, William W MVN

To: Richardson, James H MVN; Grieshaber, John B MVN
Subject: RE: Level-3 Permit

Jim and John,

After a cursory review I offer the following reguardless of my lack of knowledge where this crossing is located:

1). The Corps will allow directional drilling if the applicant can demonstrate his ability to; understand and meet the Corps drilling criteria. It is a very rigrous engineering solution which must be presented to provide some security for the flood protection system. To provide a fall back (fail safe) for the flood protection system the applicant has to demonstrate an ability to perform a replacement (as shown in our criteria) of the facility should hydraulic drilling material return to the ground / flood protection surface.

a). The fact that another company has directional drilled a line parallel to this facility and no apparent damage was done is irelevant as that line has no permit and will be subjected to very stringent after the fact permit proceedures.

2). The use of multiclustered inter lines creates issues which must be addressed by the applicant in any crossing proceedure which is ultimately permitted. The multilines in a single conductor makes water proofing extremely difficult for the applicant however he must address this as a permit application issue to be solved prior to our issueing a letter of no objection to the levee board.

3). The design of the crossing is a responcibility of the permit applicant and the Corps will be receptive to a directional drilling operation however many questions must be addressed by the applicant to assure the flood protection water tightness.

Bill Caver

-----Original Message-----
From: Richardson, James H MVN
Sent: Monday, January 24, 2000 5:18 PM
To: Caver, William W MVN; Grieshaber, John B MVN
Subject: FW: Level-3 Permit

Bill,

Please review Wade's Email below. Please forward this response to Wade Wright if you agree. Please copy me also.

It is permissible to drill under the flood protection if the operation meets the guidelines for directional drilling under levees (attached). We do not specify the depth. The guidelines are used to determine the required depth. We also will require a concrete plug placed on the end of the casing because the casing contains multiple innerducts. Level-3 should determine Quest's location and provide some minimum distance separation.
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It is also permissible to pass the casing through a sleeve in the sheet pile below the concrete. This will also require a concrete plug placed on the end of the casing because the casing contains multiple innerducts.

Jim,

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