

**From:** Felicia Miller  
**To:** Docket Optical System; Hilarie Anderson  
**Date:** 12/3/2009 9:23 AM  
**Subject:** RE: TID A2PP  
**Attachments:** NH3 Piping Sketch.pdf; NH3 Piping Sketch.pdf

<b>DOCKET</b>	
<b>09-AFC-2</b>	
<b>DATE</b>	<u>DEC 03 2009</u>
<b>RECD</b>	<u>DEC 03 2009</u>

Dockets,

Please docket and post on project website.  
 ROC - A. Greenberg/S. Strachan RE: Pipeline Info

>>> "Susan Strachan" <[strachan@dcn.org](mailto:strachan@dcn.org)> 11/23/2009 8:37 AM >>>

Alvin - Attached is a sketch which identifies the other pipelines that would be located within the same trench as the ammonia line. It also shows the distance between the lines.

Regarding the fill material, existing or native soil, course sand, fine gravel, or other suitable material may be used consistent with construction specifications and as approved by the geotechnical consultant.

Please let me know if you have any further questions.

**Susan Strachan**  
 Strachan Consulting  
[strachan@dcn.org](mailto:strachan@dcn.org)  
 530-220-7038 c  
 530-757-7038 o

**From:** Dr. Alvin Greenberg [<mailto:agreenberg@risksci.com>]  
**Sent:** Thursday, November 12, 2009 9:36 AM  
**To:** 'Susan Strachan'  
**Subject:** RE: TID A2PP

Thanks Susan!

Please find out what the "other pipes" that will be buried within or "near" the same trench as the any ammonia pipe and what the distance & fill materials will be between them. In other words, will the pipes be separated by inches? How many inches? Will the fill material be pea-size gravel, sand, or re-filled with excavated soil?

-Alvin

Dr. Alvin Greenberg  
 Risk Science Associates  
 121 Paul Dr., Suite A  
 San Rafael, CA 94903  
 office 415-479-7560  
 cell 415-302-0438

**From:** Susan Strachan [<mailto:strachan@dcn.org>]  
**Sent:** Thursday, November 12, 2009 8:49 AM  
**To:** 'Dr. Alvin Greenberg'

**Cc:** 'Felicia Miller'; [smadams@ch2m.com](mailto:smadams@ch2m.com); [strachan@dcn.org](mailto:strachan@dcn.org)  
**Subject:** TID A2PP

Alvin –

Thank you again for visiting the TID A2PP site. You had a few questions we were not able to answer during your visit. The questions and answers are provided below:

1. What is the length of the line from the ammonia tank to the last A2PP gas turbine?

The above ground pipe from the ammonia tank to underground is ~70'. The underground portion is expected to be in the order of 1000'.

2. Will the ammonia line be in an accessible trench or direct buried?

The piping will be direct buried.

3. Will anything else be located in the same trench as the ammonia line?

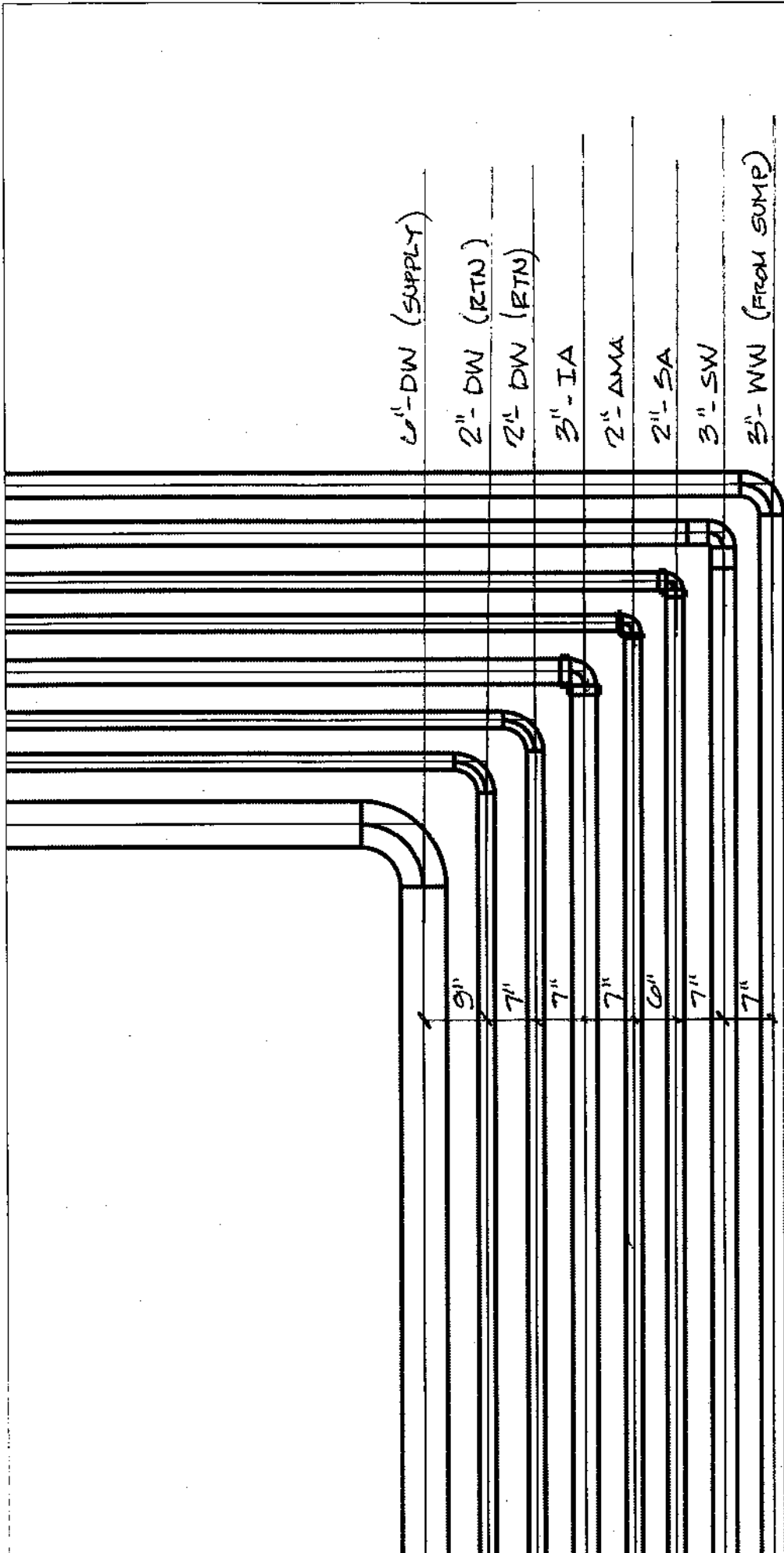
The piping will be buried near other buried piping but not close to any electrical cabling.

4. Will the ammonia line to the A2PP be located inside of the plant fence line?

Yes, all piping will be within the new plant fence.

Please let me know if you have any further questions. Thanks.

**Susan Strachan**  
Strachan Consulting  
[strachan@dcn.org](mailto:strachan@dcn.org)  
530-220-7038 c  
530-757-7038 o



DIMENSIONS ARE  $\phi$  TO  $\phi$

SERVICE CODES

- DW: DEMINERALIZE WATER
- IA: INSTRUMENT AIR
- AMA: AMMONIA
- SA: SERVICE AIR (COMPRESSED)
- SW: SERVICE WATER
- WW: WASTE WATER