

Questions from the Community with regard to the Western Slopes Gas Pipeline from the Narrabri Gas Project to be asked and tabled at the December CCC meeting.

These questions are being asked in anticipation that they will be supplied to the members in an electronic form so that the answers can be easily and timely transmitted to the community which the members of this CCC represent.

1 Question: a- To what maximum pressure was the Western Slopes Gas Pipeline designed and tested and will APA provide a copy of these certificates to the members of the CCC?

b- What is the calculated and actual tested pressure 'factor of safety' figure for the Western slopes Pipeline?

i) Was this figure provided for the whole constructed length of Western Slopes Pipeline of only one segment of it?

2 Question: a- What is the expected velocity of the gas over the length of the Western Slopes Pipeline?

b- How is the velocity of the gas within the Western Slopes Pipeline controlled given that it starts out semi compressed?

c- What is the pressure of the gas in the main North South Pipeline and how will APA either increase or decrease the pressure of the gas in the Western Slopes Pipeline to enable full gas entry into the main North South gas pipeline?

b-What is the terminal velocity of the gas in the western Slopes Pipeline at the junction with the main North South gas pipeline?

3 Question: a- What internal measures have been taken with regard to the Western Slopes Pipeline to reduce;

i) Friction between the flowing gas and the pipeline walls?

ii) The formation of eddy currents at any weld, control/shut-off valve, low or high level bleed valve entry points, or other areas where the internal surface of the Western Slopes pipeline may have been changed?

ii) Following on from ii. What is the expected velocity and erosive effects and how are these possible effects countered (Continuation of f ii) above).

4 Question: a- What are the methods of external corrosion control to protect the external surfaces of the Western Slopes Pipeline from:

i) Corrosion from the conditions within with regard to pH?

ii) Bacterial attack, from either Sulphate Reducing or any of the Iron Reducing Bacteria that may be present, or introduced, in the soils and groundwater of the regions through which the pipeline will travel?

iii) Has the soils and groundwater in the area where the Western Slopes pipeline will travel been tested for any of the above parts of this question, and if so can the Pipeline CCC be provided with these results?

b- If Cathodic Protection is used to reduce the effects of corrosion due the pH conditions then;

i) What is the sacrificial anodic material to be used?

ii) Distance from the Pipeline of this material?

iii) What are the spacing's along the length of the Western Slopes of these protection stations to ensure full protection for the length of the pipeline?

iv) Is this Cathodic Protection compatible with the protection on the main North South pipeline? If not then what measures are being carried out to ensure that there is no compatibility problems due incompatible types of Cathodic protection?

- v) How often are the anodic elements of Cathodic Protection inspected for decomposition?
- vi) What is the expected voltage and current generation expected between the anode and cathode?
- vii) Has consideration been given to a possibility that this type of corrosion protection may affect any existing local farm infrastructure such as metal fence posts, either galvanised or painted, existing farm water infrastructure, such as in-ground pipes and windmills and watering troughs?
- viii) Has consideration been given to any possible effects to existing artesian bore cases from this type corrosion control and the reverse where the Cathodic Protection may not protect the pipeline but rather existing infrastructure to the detriment of the pipeline? If this has then, what are the measures being considered?

5 Question: a- How often are the external surfaces of the Western Slopes Pipeline scheduled to be inspected?

- i) What form will this inspection take and will the landowner be compensated while this procedure or repairs are taking place?
- ii) Should an event occur with the Western Slopes Pipeline or any associated infrastructure which results in the landowner suffering loss, will APA give immediate and satisfactory Compensation for that loss or will the Landowner have to apply and deal with APA's insurance company?

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