

ACQUISITION FOR THE SUPPLY OF LIQUID NITROGEN #NNK14494471R
QUESTIONS AND ANSWERS
12/10/13

Question 1. Can we install a telemetry unit on the tank? (for monitoring the liquid level)?

Answer 1. No, you may not install a telemetry unit on the tank. This LN2 support is for testing that requires NASA to closely coordinate the deliveries. Consequently, telemetry would have little value.

Question 2. Has the LN2 tank been in service previously?

Answer 2. Yes, the LN2 tank has been in services previously. It currently has LN2 in it.

Question 3. How many fill ports does the tank have? One, two or a manifold?

Answer 3. The tank has one manifold and two ports.

Question 4. Was it filled by another supplier prior to this requirement?

Answer 4. Yes, the tank it currently has LN2 in it.

Question 5. Is the tank hot now?

Answer 5. No, the tank presently has LN2 in it.

Question 6. How will the tankers be ordered for arrival? One tanker at a time or a multiple (waves) of tankers?

Answer 6. The tankers will be ordered one tanker at a time, or perhaps two.

Question 7. Does Glenn anticipate any potential for delay at their site?

Answer 7. We do not anticipate a delay at the site for unloading a truck, unless trucks get stacked up. We will coordinate with the supplier on how trucks should be delivered and potentially modify the delivery prior to the truck leaving the distribution site (if the distribution site is less than two hours away.)

Question 8. Can Glenn estimate how often 240 tons per day will be required or is this worst case scenario?

Answer 8. Estimates are based on worst case scenarios. We expect to be closer to 120 tons per day. The last two tests should be at a rate less than the 120 tons per day.

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Question 9. Does the weekly maximum tonnage count begin on Sunday and run through Saturday?

Answer 9. No. The maximum tonnage count can begin on any day, for seven contiguous days.

Question 10. Is it possible for the requirement to run in excess of seven days in a row? Or will there be a hard stop after the 7th day of testing?

Answer 10. It is possible, but unlikely. Seven (7) days is the longest contiguous requirement.

Question 11. Does the 1,700 tons per week apply for each week or only weeks with testing. (7 on and 7 off?)

Answer 11. The 1,700 tons per week applies only to the weeks with testing.

Question 12. Can you explain what the LN2 will support? What program?

Answer 12. The LN2 will support "Game Changing Technology" Development Program on the deployment of large solar arrays in a space environment.

Question 13. Would it be possible to provide a singular "batch" COC (certificate of conformance) on the DD250 vs. individual tanker sampling?

Answer 13. A quarterly bulk tank laboratory analysis with a "batch" COC is acceptable in lieu of individual tanker sampling.