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Dear Mr. Basdekas:

The recent discovery of steam generator corrosion at TMI Unit 1 has raised questions that beg explanation.

For this reason I am prevailing upon your professional evaluation and patience to respond to the following:

1. The Thiosulphate Theory

- a) Is it exclusionary?
- b) Have all the possible sources of sulphur compounds, detected in the steam generators, been investigated other than the thiosulphate which was or was not inadvertently introduced into the RPV?
- c) What are the other possible sources of sulphur?
- d) What is the amount and source of chlorine that is present in the steam generator?

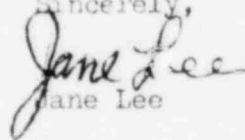
NOTE: See Steam Generator Status Report (TMI #1)

2. Henry Hukill - GPUNC - May 7, 1982 News Release. "We are very pleased with the results of the test program which clearly demonstrate that the corrosion problem has not affected the reactor vessel's internals."

- a) How can the thiosulphate have corroded the steam generators with "no effect" on the reactor pressure internals?
- b) Has any trace of sulphur been detected in the reactor internals?

3. The Steam Generator Monthly Status Reports suggest the alloys were sensitized thru outdated heat treatments to intergranular attack.
  - a) What is the present integrity of these alloys?
  - b) Would this sensitization of these alloys threaten the present or future integrity of these alloys or the safe operation of Unit #1?
  - c) What other sources would cause the corrosion that may not have been discovered or corrected?
4. Testimony given by a representative of Foster Wheeler on June 29, 1982 at 7735 Georgetown Rd. - Room 6110.
  - a) Wheeler conceded that the present testing only addresses a difference in temperature between the tubing and the tubesheet of 50F. It was also conceded that a difference in temperature between tubing and tubesheet of several hundred degrees could cause leaking.
  - b) Could that difference in temperature between 50F and several hundred degrees create a replay of the Ginna event?
  - c) The Steam Generator Monthly Status Reports have not addressed the steam generator transients upon the PTS problem. What is your opinion?
5. Explosive Expansion Repair Procedures on Tubing
  - a) What adverse results should be anticipated from the explosive expansion repair procedure?
  - b) How reliable and enduring will this procedure be?

The cleanup of Unit 2 is entering a critical stage. Therefore, it is my hope that every effort will be made to thoroughly investigate any problems in Unit 1 so we may avoid any repetition of Unit 2.

Sincerely,  
  
Jane Lee