MEETING LOG DIRECTORATE FOR ENGINEERING SCIENCES

SUBJECT: Meeting of the ANSI Z21.47 ANSI Z21/CGA Joint Central Furnace Subcommittee

PLACE: Harley Hotel-West, Cleveland, Ohio

MEETING DATE: September 9-10, 1997

LOG ENTRY SOURCE: Ronald A. Jordan RAJ

ENTRY DATE: September 19, 1997

COMMISSION ATTENDEES:

Ronald A. Jordan, ESEE

NON-COMMISSION ATTENDEES:

See attached member attendee list

MEETING SUMMARY:

Glenn Hooker of Union Gas in Ontario, Canada has been named the new Chairman of the Central Furnace Subcommittee to replace the former Chairman, Daryl Hosler of Southern California Gas Company. Mr. Hosler relinquished his position to take the position of Chairman of the Z21/Z83 Chairman's Advisory Committee.

Item 6. Consider recommendation of Central Furnace Technical Working Group on a proposal to revise the harmonized central furnace standard to provide coverage for disconnected vents.

At the November 1996 furnace subcommittee meeting staff proposed that coverage be added to the furnace standard, ANSI Z21.47, that requires a furnace to shutoff if its vent becomes disconnected. At the May 1997 meeting of the furnace subcommittee's Technical Working Group (TWG), staff presented incident information that supported the need to add coverage for disconnected vents. The TWG agreed to draft a work statement requesting the Gas Research Institute (GRI) to explore the necessary technologies to shut a furnace off when its vent becomes disconnected. This issue was divided into two parts, Mechanical integrity of a vent, Item 6A, and the work statement developed for the Gas Research Institute (GRI) to develop technology to shut a furnace off when the vent becomes disconnected, Item 6B. Both parts of this item are part of the subcommittee's efforts to address staff's recommendation.

Item 6A. Consider recommendation of an ad hoc working group on a proposal to revise the harmonized central furnace standard to provide coverage for the mechanical integrity of vent connection to the furnace.

The technical working group (TWG) after its May 1997 meeting developed proposed coverage that:

"Venting system parts, including parts within the furnace, shall not break, disassemble or become damaged to the extent that they permit unsafe furnace operation when subjected to a longitudinal force of 100 pounds (445 N) and a torque of 25 foot-pounds (34 N-m)." This proposal was presented to the subcommittee for a vote.

The subcommittee voted to adapt this proposal for all categories of furnaces. They adapted the following rationale statement:

"Recent field experiences with vent system connections indicate the need for mechanical integrity tests of flue collar/outlets."

Item 6B. Consider work statement developed for GRI by an ad hoc working group on a project to develop a system to shutoff the fuel supply to heating appliances in the event of a disconnected vent.

The subcommittee reviewed and voted on this work statement. Based on comments from GRI on the draft version of the work statement, the subcommittee voted to adopt the work statement and forward it to GRI after certain revisions were made to it. The subcommittee will finish the revisions and forward to GRI by GRI's January-February 1998 Venting TAG meeting.

cc:
Office of the Secretary
Colin Church
ESEE Chronological File