NRC FORM 699 (9-2003) U.S. NUCLEAR REGULATORY COMMISSION

CONVERSATION RECORD

DATE: 06/08/2009

TIME: 2:00pm

NAME OF PERSON(S) CONTACTED OR IN CONTACT WITH YOU	TELEPHONE NO.
Luis Hinojosa, Stefan Anton, Chuck Bullard,	800-501-8979

ORGANIZATION: Holtec International

SUBJECT: Review of Materials RAIs for the HI-STAR 180 package

TYPE OF CONVERSATION
- ☐ VISIT
- ☐ CONFERENCE
- ☑ TELEPHONE
  - ☐ INCOMING
  - ☑ OUTGOING

SUMMARY *(Continue on Page 2)*

Other Holtec Attendees: Tom Haynes, Phil Blue, Indresh Rampall

NRC Attendees: Geoffrey Hornseth, Pierre Saverot

This teleconference call was requested by Holtec to present their proposed responses to the RAI letter for the HI-STAR 180 package and obtain staff's comments for a proper resolution of those RAIs:

RAI 2-14: Holtec confirmed that it is not invoking the Subsection NG stress limit approach but that it uses a strain control approach for the fuel basket design. Holtec also stated that, when performing a drop accident analysis, the observed 0.5 mm permanent lateral deformation is purely a deflection limit that comes in fact from the criticality analysis.

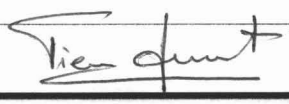
RAI D-3: Staff said that this question goes back to the strain control approach in RAI 2-14. Holtec confirmed that the MGV approach for the Metamic HT weld strength is that the minimum weld strength requirement is 60% of the yield strength.

RAI O-1: Staff described this RAI as a "sanity check" question for the applicant. Currently, all characteristics, design information, or data are now incorporated by reference into the CoC because of numerous cross-references from Chapters 7, 8 and the Licensing Drawings to other chapters of the SAR. Staff stated that it was not clear that this was the applicant's intent. Holtec agreed to look carefully into this matter.

RAI M-1: Holtec stated that it will guarantee that every property meets the set of MGV by employing a "non-statistical" approach. Staff acknowledged this statement as a "significant change" from the data that staff currently has and concluded by saying that most RAIs on materials are likely to be eliminated. In addition, RAI M-1 referred to the stress related criteria. Now that staff knows that Holtec is using a strain control approach for the basket design, this RAI becomes less relevant.

Continue on Page 2

ACTION REQUIRED: None

NAME OF PERSON DOCUMENTING CONVERSATION	SIGNATURE	DATE
Pierre Saverot		06/10/2009

ACTION TAKEN

TITLE OF PERSON TAKING ACTION	SIGNATURE OF PERSON TAKING ACTION	DATE

CONVERSATION RECORD (Continued)

SUMMARY *(Continue on Page 3)*

RAI M-3: Holtec confirmed that irradiated samples were used to determine MGVs and that the clarification will be made in the Metamic HT Sourcebook.

RAI M-4: Holtec confirmed that minimum property values will in each case exceed the MGVs and that Holtec would go to a non-statistical approach.

RAIs M-5, M-6: The MGV values will be included in the Sourcebook.

RAI M-7: Holtec will provide the details of the production sampling plan, as requested by staff. Staff also indicated that the same basic question is in RAI 8-2.

RAI M-8: Holtec indicated that 4 powder lots were involved in the samples tested for the Sourcebook. Holtec said that it will provide an additional description of the lot to lot variability and more directly answer this RAI because of its importance from a QA and performance standpoint.

RAI M-9: Holtec explained some of the "outlier"data points and said that it will fully explain the issues.

RAI M-10: Holtec stated that it will review the "as extruded property data" at -40 C.

RAI M-11: Holtec said that it will fully address the question raised by staff with the expanded number of coupons that have been recently generated. Holtec said that density variations as a function of the remperature are not critical to the report and that the density of the solid material does not change with the temperature.

RAI M-12 through M-16: Holtec said that it will provide all necessary clarifications with the large number of samples that they now have (over 30).

RAI D-1: Staff said that this RAI referred to the bottom forging weld containment boundary. Staff said that Holtec needs to prove adequate ductility if Holtec does not perform code required PWHT. Staff also stated that strain controlled design requires good ductility.

RAI D-2: Staff said that this RAI is administrative in nature and relates to a "sloppy terminology".

Continue on Page 3