

February 18, 2004

Mr. Brian Gutherman  
Manager, Licensing and Technical Services  
Holtec International  
Holtec Center  
555 Lincoln Drive West  
Marlton, NJ 08053

SUBJECT: RENEWAL OF CERTIFICATE OF COMPLIANCE NO. 9261 FOR THE MODEL  
NO. HI-STAR 100 SYSTEM

Dear Mr. Gutherman:

As requested by your application dated January 22, 2004, enclosed is Certificate of Compliance No. 9261, Revision No. 3, for the Model No. HI-STAR 100 System. This certificate supersedes, in its entirety, Certificate of Compliance No. 9261, Revision No. 2, dated September 24, 2003. The changes made to the enclosed certificate are indicated by vertical lines in the right margin. The staff's Safety Evaluation Report is also enclosed.

Holtec International has been registered as user of the package under the general license provisions of 10 CFR 71.12 or 49 CFR 173.471. The approval constitutes authority to use the package for shipment of radioactive material and for the package to be shipped in accordance with the provisions of 49 CFR 173.471.

If you have any questions regarding this certificate, please contact me or Ernesto Quiñones of my staff at (301)415-8500.

Sincerely,

/RA/  
John D. Monninger, Chief  
Licensing Section  
Spent Fuel Project Office  
Office of Nuclear Material Safety  
and Safeguards

Docket No. 71-9261  
TAC No. L23694

Enclosures: 1. Certificate of Compliance No. 9261, Rev. 3  
2. Safety Evaluation Report

cc w/encl: R. Boyle, Department of Transportation  
James M. Shuler, Department of Energy  
RAMCERTS

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 Manager, Licensing and Technical Services  
 Holtec International  
 Holtec Center  
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\*see previous concurrence

**ML040510425**

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|------|------------|---|------------|---|-----------|---|------------|--|
| OFC  | SFPO       | E | SFPO       | E | SFPO      | E | SFPO       |  |
| NAME | EQuiñones* |   | MRahimi*   |   | MDeBose   |   | JMonninger |  |
| DATE | 2 / 10 /04 |   | 2 / 10 /04 |   | 02/ 17/04 |   | 02/18 /04  |  |

SAFETY EVALUATION REPORT  
Docket No. 71-9261  
Model No. HI-STAR 100 System  
Certificate of Compliance No. 9261  
Revision No. 3

## **SUMMARY**

By application dated January 22, 2004, Holtec International (Holtec), requested renewal of Certificate of Compliance No. 9261 for the Model No. HI-STAR 100 System package. Holtec did not request any design changes to the package. The certificate has been renewed for a five year term.

## **EVALUATION**

Holtec requested renewal of Certificate of Compliance No. 9261 for the Model No. HI-STAR 100 System package by application dated January 22, 2004. Holtec did not request any design changes to the transport cask.

The applicant requested that condition 6 (b)(10)(b) and (c) of the certificate, be revised to correct a minor administrative change. The condition specifies the minimum flux trap sizes for cells 3, 6, 9 and 22 of the Trojan and generic MPC-24E and MPC-24EF. Holtec requested that the cell number 9 be changed to 19 to be consistent with Drawing 3925, Revision 4 and Tables 1.2.25 and 1.2.26 of the HI-STAR 100 Safety Analysis Report, Revision 10.

In addition, Holtec verbally requested another typographical correction on February 18, 2004, to Table A-7 of Appendix A of the certificate. The assembly burnup and assembly minimum enrichment for the  $\geq 19$  years of post-irradiation cooling time were changed to  $\leq 44,500$  MWD/MTU and  $\geq 3.0$  wt% U-235, respectively. The changes were made in order to be consistent with Table 1.2.31 of the HI-STAR 100 Safety Analysis Report, Revision 10.

The requested changes to the certificate does not impact any safety issue to the HI-STAR 100 package. The staff reviewed the documents referenced in the certificate and determined that the documentation was available and complete.

## **CONCLUSION**

The certificate has been renewed for a five year term that expires on March 31, 2009. This change does not affect the ability of the package to meet the requirements of 10 CFR Part 71.

Issued with Certificate of Compliance No. 9261, Revision No. 3,  
on February 18, 2004.