

HOLTEC HIGHLIGHTS

A Summary Report to Our Clients, Suppliers, and Company Personnel

Holtec's Small Modular Reactor, SMR-160, Advances to the Detailed Design and Safety Analysis Phase

We are pleased to announce that the preliminary design details of our small modular reactor, SMR-160, and all essential scoping safety analyses have now been successfully completed. The detailed design phase, scheduled for launching on August 1, 2012, will encompass the development of hundreds of design drawings, scores of reports, and in-depth safety analyses using state-of-the-art computer codes. Only those computer codes that have been quality validated by Holtec in accordance with USNRC's published guidance will be used. Our engineers are scheduled to brief the USNRC on the key features of SMR-160 on July 26, 2012 at the Agency's headquarters. Many more in-person interactions with the NRC are planned for the coming months to pave the way for the submittal of the Construction Permit Application and Preliminary Safety Analysis Report in June 2014.

As was reported in March (Holtec Highlights HH 27.01), the U.S. Department of Energy has agreed to host the first SMR-160 at its sprawling Savannah River National Laboratory site that has the proud record of having served as a bastion of the nation's atomic defense program during the cold war years. In a happy twist of history, if all goes as planned, the same national laboratory where the weapons grade fissile material was produced during the cold war will burn it as mixed oxide (MOX) fuel to generate electricity in our SMR-160. Siting studies for building the first SMR-160 at the Savannah River facility have begun.

"Simplicity is the mother of safety and reliability", says Dr. Kris Singh, Holtec's President and CEO, adding, "We have conscientiously sacrificed some thermodynamic efficiency in favor of safety and simplicity. Hopefully, we will shortly offer SMR-160 to the world as the supremely safe embodiment of nuclear energy that cannot be subverted even by a rogue operator. We must erase the fear of an accident from the minds of people to enable nuclear energy to emerge as the universally welcomed font of bounteous clean energy. We hope to offer up SMR-160 as our industry's ambassador of un-compromised safety, which is poised to help illuminate even the darkest corners of the globe with affordable electricity."

Please see the brochure on SMR-160, attached to this issue, which provides a concise summary of the mission and attributes of SMR-160.



For more information please contact:
Ms. Joy Russell
Director, Corporate
Business Development

Telephone:
856-797-0900, Ext. 3655

Email:
J.Russell@holtec.com

Visit our website at:
www.holtecinternational.com



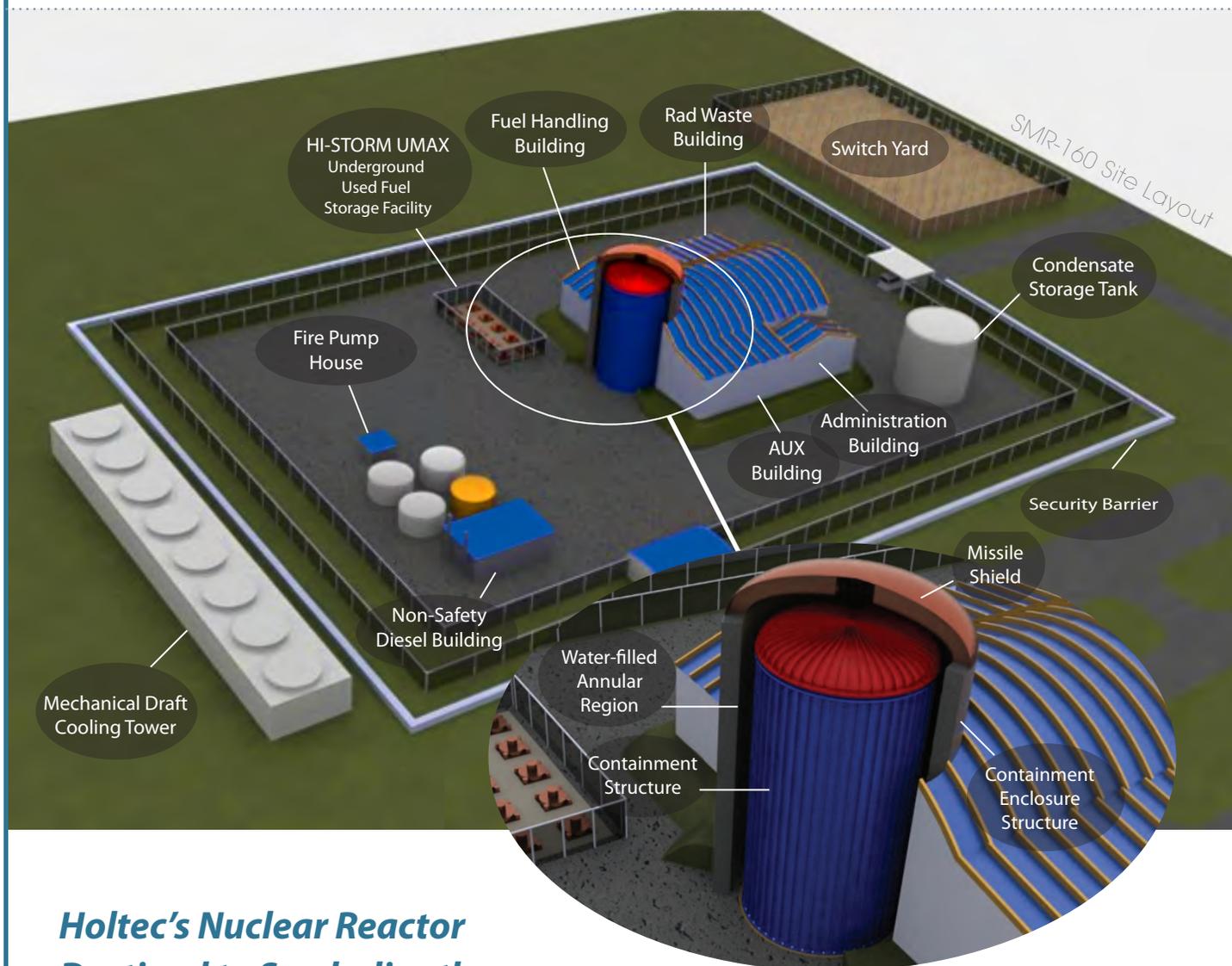
Holtec Center
555 Lincoln Drive West
Marlton, NJ 08053

SMR-160

HOLTEC'S SMALL UNDERGROUND NUCLEAR REACTOR



HOLTEC
INTERNATIONAL



Holtec's Nuclear Reactor Destined to Symbolize the 21st Century's Notion of Supreme Safety and Security

The SMR-160, a **Holtec Inherently-Safe Modular Underground Reactor (HI-SMUR™)** technology based power generation system is a 160 megawatt reactor designed to provide Safe, Secure and Economical source of clean energy from nuclear fission.

SMR-160 will deliver 160 megawatts of electricity day in and day out with a one week break for refueling every 42 months. The power output from SMR-160 will be enough to light up about 100,000 homes in the U.S. and over 300,000 homes in the developing world.

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SMR-160 IS THE VERY EPITOME OF SAFETY

SMR-160 is powered purely by gravity and has no pumps, motors and the like, to maintain its safety. SMR-160 will shrug off the 1-2-3 punch of an earthquake, tsunami, and hurricane without falling prey to a nuclear accident. A catastrophe like Fukushima or Chernobyl cannot happen at a SMR-160 site. SMR-160 is an invincible fortress to a terrorist group because it cannot be commandeered to blow up. The reactor automatically shuts down as soon as the water temperature begins to rise uncontrollably.

The used fuel produced by SMR-160 will be stored underground at the plant site for 300 years; there is no need to transport any nuclear waste and there is no environmental impact on the host community. At 800 million dollars per reactor, SMR-160 is affordable to smaller entities, such as municipalities. With a 24 month shovel to commissioning construction cycle, it can be brought on-line to meet the ongoing power needs of a community.

Unlike large power stations, the SMR-160 can be run using air, rather than water as the heat sink; a critical capability to serve water parched regions of the world. With an expected useful service life of 80 years, SMR-160 provides a uniquely long term return on investment - an eight decade money machine!

SMR-160 IS SMALL

The site boundary of one reactor will occupy about five acres (two football fields); two reactors at one site will together take up three football fields.

APPLICATION

Because of its inherent safety and security, SMR-160 will be used by governments to protect their critical infrastructure such as research facilities and military bases. Because of its modest size, SMR-160 will merit use in cogeneration, district heating, and as a source of reliable power to remote locations.

OUR MISSION

The night time satellite photo of the world (below) shows that over three-fourths of the earth's land mass is semi-dark or completely dark. Our goal is to light up the world without producing an ounce of greenhouse gas. Electricity powers industry which creates jobs. Therefore, the rise of SMR-160 will help bring jobs and spur industrial growth in host communities.



Image Credit: NASA GSFC



SMR-160 Containment Cross Section

SMR, LLC

A Holtec International Company
1001 U.S. Highway 1 North
Jupiter, FL 3347
Phone: +1 (856) 797-0900
E-mail: smrsales@holtec.com
www.holtec.com



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