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Turbine Inlet Cooling Installations Database is Now Available

NAPERVILLE, Ill. (August 20, 2003)– John Andrepont, Chairman of the Information Development Committee of the Turbine Inlet Cooling Association (TICA) announces the availability of the Turbine Inlet Cooling (TIC) installation database at the TICA Website (www.turbineinletcooling.org). There are two versions of this database: public and members. The public version of the database has very significant information about each project and the members' version of it has significantly more details than that in the public version. Access to the members' version requires user ID and password available only to the TICA members.

The database incorporates information on 92 TIC projects in North and South America, Europe, Asia, and Australia. These projects cover power generation rated capacity (at ISO conditions of 59°F and 14.7 psia) range of 1 MW to 170 MW for plants using simple-cycle or combined cycle systems that use a total of 213 combustion turbines (an average of 2.3 turbines per project) having combined generation capacity (at ISO conditions) of 16,000 MW (an average of 175 MW per project). Eighty-seven (87) of these projects use refrigeration chillers (mechanical and/or absorption) with combined installed capacity of 600,000 tons (an average of nearly 7,400 tons per project). Eleven of these plants use thermal energy storage systems with a combined capacity of 900,000 ton-hours (an average of nearly 82,500 ton-hours). The remaining 5 plants use fogging, evaporative media, or wet compression techniques for TIC. TICA is still soliciting information on more installations that use these technologies. Analysis of the available data show that during hot weather, TIC projects increase average power output by about 24% of the hot-weather capacity of the system output without TIC. The database also lists the names of the TICA members involved in these projects.

The TICA has been established for promoting the development and exchange of knowledge related to combustion turbine inlet cooling. Some of its major goals include working in cooperation with other organizations in establishing performance test standards for turbine inlet cooling (TIC) and to be the "one-stop" source of information for TIC. It was founded in 2001 by a group of companies involved with turbine inlet cooling, that share the belief that TIC provides a cost-effective, energy-efficient, and environmentally-beneficial means of enhancing power generation capacity. Visit the TICA Web site, <http://www.turbineinletcooling.org>, for information on the TICA mission and vision, its members, board, officers, various committees (their objectives and members), turbine inlet cooling industry resource guide, bibliography, and technical meetings.