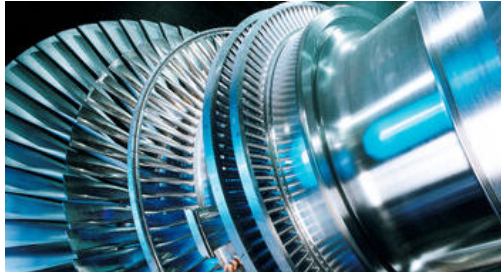


ASME Hudson-Mohawk Section
A Runaway Turbine Generator :
It should not have happened, but it did.
Why?



Holger Lukas
Consulting Engineer
Wednesday, January 24 2007
6:30 PM – 7:30 PM



Niskayuna Public Library
2400 Nott Street East
Niskayuna, NY 12309
Light refreshments will be offered free of charge.

A ten year old controlled extraction steam turbine in combined cycle cogeneration application suffered an overspeed incident. As a result of this incident, severe damage occurred to the steam turbine and generator as well as to the building due to a resulting fire.

This presentation provides an overview of the damage and of the resultant investigation to determine the most probable cause of the overspeed. The presentation addresses the turbine and system protectives and their action during the incident. It describes, although the turbine was protected as per normal design practices, multiple problems negated these protective systems.

Main topics covered:

- Background
- Damage Found
- Plant Description
- Incident
- Most Probable Cause

Biography:

Holger Lukas, an independent consulting engineer since 1998, has over 40 years of experience. After completing his education at the U.S. Merchant Marine Academy, Holgar spent 3 years as a United States Coast Guard marine engineer. His corporate experience includes United Technologies, Brown Boveri Turbomachinery, and Encotech, Inc..

Throughout his career, Holger has been active in many organizations including: the American Society of Mechanical Engineers, the International Gas Turbine Institute, the Cogeneration Institute of the Association of Energy Engineers, the American Society of Heating & Air Conditioning Engineers, the National Society of Professional Engineers, the Society of Naval Architects and Marine Engineers, the American Society for Testing and Materials and the National Association of Corrosion Engineers.

Holger is a licensed engineer in the states of New York and Minnesota and a Certified Cogeneration Professional. He is also holds a US Coast Guard License as Second Assistant Engineer of Steam Vessels any Horsepower and US Coast Guard License as Third Assistant Engineer of Motor Vessels any Horsepower.

Please respond to Fred Willett (willettf1@asme.org or 978-353-5306) by 5 PM of 22Jan to reserve your spot.

THE AMERICAN SOCIETY OF MECHANICAL ENGINEERS
HUDSON MOHAWK SECTION
PO BOX 206
Schenectady, NY 12301

**Directions to Niskayuna Public Library Branch of
Schenectady County :**

From Interstate 890 (East or West)
Take Exit 7 – Rte 7 East
Proceed East.
Take Left on Balltown Road (5 traffic lights).
Proceed North on Balltown Road.
Take Right on Nott Street (3 traffic lights).
Library is on right side directly opposite Niskayuna Town Hall.

From North

Take Rte 146 across the Mohawk River (Rexford Bridge).
Proceed South on Rte 146.
Take Left on Nott Street (Right after Niskayuna High School).
Library is on right side directly opposite Niskayuna Town Hall.

From East

Take Rte 7 West.
Bear Right on Union Street.
Take Right on Balltown Road.
Proceed North on Balltown Road.
Take Right on Nott Street (3 traffic lights).
Library is on right side directly opposite Niskayuna Town Hall.

From West

Follow directions for I-890.

Opportunities:

To post career opportunities in the field of engineering please contact Mark Frontera.

frontera@research.ge.com: (518-387-5323)

Distribution of Section Newsletter

The Hudson Mohawk newsletter is posted at:

www.asme.org/sections/udson-mohawk.

Once each newsletter is posted on the Section's web page, an e-mail notification and link to the above website is sent to members who have e-mail addresses in the ASME member database. If you are an active member of ASME and did not receive an e-mail notification, please go to the ASME web site and update your membership information.

<http://members.asme.org/myasme/login/myasme.cfm>
