

October 9, 2002

MEMORANDUM TO: William Ruland, Director  
Project Directorate IV  
Division of Licensing Project Management  
Office of Nuclear Reactor Regulation

FROM: Bo Pham, Project Manager, Section 2 */RAI*  
Project Directorate IV  
Division of Licensing Project Management  
Office of Nuclear Reactor Regulation

SUBJECT: SUMMARY OF MEETING HELD ON SEPTEMBER 16, 2002, WITH BTB  
JANSKY GMBH REGARDING VALI III PROCESS DATA  
RECONCILIATION SOFTWARE

On Monday, September 16, 2002, the Nuclear Regulatory Commission (NRC) staff hosted a meeting with representatives from the German technology consulting firm, BTB Jansky GMBH (BTB Jansky). The meeting was a request by BTB Jansky for an opportunity to brief the NRC staff about the VALI III process data reconciliation software.

The meeting began with an introduction of all attendees. Attachment 1 is a list of attendees and their organizational representation. Following introductions, the NRC staff briefly summarized background information regarding initial interest from BTB Jansky about the NRC's approval process. The company had submitted and presented a paper on VALI III, "Process Data Reconciliation in Nuclear Power Plants," at the Electric Power Research Institute (EPRI) Nuclear Power Plant Improvement Seminar on July 15, 2002. Using process data reconciliation with VALI III, BTB Jansky claims that uncertainty errors can be reduced in plant instrumentation to produce potential power uprates in the 1.5% order of magnitude. Prior to the meeting at NRC, this paper was disseminated among the NRC staff in the Electrical & Instrumentation & Controls, Reactor Systems, Plant Systems, and Nuclear Regulatory Research Branches for preliminary review.

BTB Jansky had contacted the NRC shortly after their presentation of VALI III at the EPRI seminar, indicating interest in pursuing an NRC approval for using the system in U.S. nuclear power plants. Although the application for a license has not been submitted, this meeting is the first formal effort in getting NRC to look at VALI III. BTB Jansky will evaluate the feasibility of submitting the application for a topical report after this initial engagement.

Following introductions, Mr. Magnus Langenstein of BTB Jansky gave the presentation on VALI III. Attachment 2 is a copy of the presentation handouts. Early in the presentation, Mr. Langenstein clarified the point that VALI III is not developed by BTB Jansky, rather, it's a third party software developed by a Belgian company, and that BTB Jansky is only responsible for applying it to industry use. In Germany, VALI III has been certified according to the VDI (English translation: Society of German Engineers) 2048 guidelines. Additionally, the TUV (English translation: Technical Inspection Association) of Southwest Germany has also accepted the software for use at Germany's Gemeenschappelijke Kernenergiecentrale Nederland 2 (GKN2) nuclear power plant. The NRC staff advised BTB Jansky that this would be relevant information to include in their application to NRC, should they decide to submit one, along with any other pertinent examples of current use or accreditation of VALI III outside the U.S.

During the functional description portion of the presentation, the NRC staff asked questions about the computing platform for VALI III. Some staff members raised reactor safety concerns about using an MS Windows based platform for inputs to thermal power calculations, but after a brief discussion, the group collectively decided that the debate was more appropriate at another time. At other times during the presentation, the NRC staff also had questions regarding specifics about the uncertainty calculations, instrumentation drift errors, and the overall system uncertainty modeling methodology. BTB Jansky asked to defer these questions to another time with a subject matter expert available. Mr. Langenstein concluded his presentation by reiterating BTB Jansky's objective to have VALI III licensed for use in the U.S.

Public representatives from Westinghouse and Caldon were available to comment on the fact that some domestic companies are also currently doing research on software and statistics based technologies similar to VALI III.

Prior to the meeting ending, the NRC staff briefly outlined the application process for submitting a topical report to BTB Jansky. The staff also commented on some specifics regarding what the reviewers would want to see with an application for VALI III, and pointed to Caldon and Westinghouse as two recent examples of approved topical reports. BTB Jansky requested to leave additional documentation behind for the NRC staff's viewing. These documents are listed in Attachment 3.

W. Ruland

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The meeting ended with the understanding by all parties that the next follow on action would be on BTB Jansky's part in formally submitting a licensing request for VALI III.

Attachments:           1. List of Meeting Attendees  
                              2. Presentation Handout  
                              3. List of Documents Received from BTB Jansky GMBH

cc w/attachment:

Dr. J. Jansky  
Managing Director  
BTB-Jansky GMBH  
Gerlingerstrasse 151  
Germany -71229 Leonberg

Mr. Magnus Langenstein  
Managing Director  
BTB-Jansky GMBH  
Gerlingerstrasse 151  
Germany -71229 Leonberg

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 Dr. J. Jansky  
 Managing Director  
 BTB-Jansky GMBH  
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 Germany -71229 Leonberg

Mr. Magnus Langenstein  
 Managing Director  
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PLoeser	
SArndt	

**ADAMS ACCESSION NOs: Accession No.:ML022770284**  
**Package: ML022530427 Meeting Notice: ML022530196**  
**Attachment 2 - Presentation Handout: ML022750301**  
 DOCUMENT NAME: C:\ORPCheckout\FileNET\ML022770284.wpd

OFFICE	PDIV-2/PM	PDIV/LA	EEIB/SC	PDIV-2/SC
NAME	BPham	MMcAllister	EMarinos	SDembek
DATE	10/1/02	10/3/02	10/4/02	10/4/02

LIST OF ATTENDEES AT MEETING ON SEPTEMBER 16, 2002

BTB JANSKY GMBH

VALI III PROCESS RECONCILIATION SOFTWARE

<b>Name</b>	<b>Organization</b>
Dr. J. Jansky	BTB Jansky GMBH
Langenstein, Magnus	BTB Jansky GMBH
Marinos, Angelo	NRC/NRR
Ahmed, Iqbal	NRC/NRR
Graham, Chris	NRC/NRR
Tatum, James	NRC/NRR
Arndt, Steven	NRC/RES
Loeser, Paul	NRC/NRR
Rebstock, Paul	NRC/NRR
Dembek, Steve	NRC/NRR
Pham, Bo	NRC/NRR
Estrada, Herb	Caldon, Inc.
Testa, Damian	Westinghouse

DOCUMENTS RECEIVED

BTB JANSKY GMBH

SEPTEMBER 16, 2002

1. VDI 2048 Guidelines: Uncertainties of Measurement During Acceptance Tests on Energy-conversion and Power Plants Fundamentals. October 2000 edition.
2. VDI 2048 Guidelines (in German). December 2001 edition.
3. VALI III User's Guide Release 10.00. October 2001.