NPJ Advertising and Advertorial Information

For the July-August 2012 Issue

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This brochure provides information on the upcoming July-August issue which is Nuclear Plant Journal's 2012 New Plants and Vendor Advertorial Issue. In this issue, advertisers who purchase an advertisement will receive an equivalent complimentary advertorial space. The advertorial must be provided by the client. The following guidelines may be of interest to the organizations preparing the advertorial:

The advertorial will include the participating company's profile providing an overview of the products and services of an individual organization. The advertorial may also include highlights of an organization, including any awards received or any recent product developments, research, or other accomplishments. Visuals may be added to enhance the attraction to the advertorial page.

Narora, India

This brochure includes specifications and samples for the Advertorial Issue. Advertising information is given in the Advertising Planning & Reservation Form on Page 2 and on the Rate Card on pages 7-8. You may print, complete and fax Page 2 to (630) 852-8787 to reserve advertising space. Please contact us if you have any questions or require further information.

1400 Opus Place
Suite 904
Downers Grove, IL 60515 USA
Phone: (630) 858-6161, ext. 103
Fax: (630) 852-8787
E-mail: NPJ@goinfo.com
http://www.NuclearPlantJournal.

Nuclear Plant Journal
An International Publication
Published in the United States

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2012 Ad Planning & Reservation Form (APARF)

Faxing is faster! New Fax: (630) 852-8787

Please mark below the 2012-2013 issues you are interested in advertising and return this form to *Nuclear Plant Journal.*

July-August 2012 Issue

New Plants and Vendor Advertorial Issue

Cost-free Space

Advertisers will be provided cost-free space for their advertorial, which will be the same size as the advertisement they have committed in the July-August issue.

Bonus circulation for July-August 2012

Nuclear Information and Records Management Association, Summerlin, Nevada.

Ad space reservation deadline:

July 6, 2012

Advertiser's Commitment

Reserve advertising space as marked below.

Ad Material

Ad materials are due one week after the commitment deadline.

NPJ Digital Version

2012 issues of Nuclear Plant Journal will also be published in digital format. To subscribe go to www.NuclearPlantJournal.com, and click on the "Subscription" button in the middle of the top row of buttons on the website.

2012 Advertising Rates

(Price in US$ per black & white advertisement)

Size	1x	3x	6x	12x
Full page	$3,595	$3,432	$3,264	$3,084
2/3 page	$2,880	$2,731	$2,677	$2,437
1/2 page	$2,275	$2,219	$2,152	$1,918
1/3 page	$1,539	$1,479	$1,436	$1,300
1/4 page	$1,172	$1,117	$1,068	$1,002
1/6 page	$903	$862	$811	$775

Additional Rates for Color:

- Second color: (matched or process) $500
- Four-color process, per page or fraction.....$850
- Four-color process, 2-page spread.....$1,500
- Bleed..... No charge

Circulation Data

- **Total Qualified:** 12,000
- **Utilities:** 2,970

Notes

1. All circulation figures are subject to BPA audit.
2. Bonus circulation plans are subject to change.
3. The publisher reserves the right to change prices and circulation.

May, 2012

www.NuclearPlantJournal.com

Editorial Schedule	Issue	Commitment Date	Bonus Distribution	Ad Size/Color
New Plants and Vendor Advertorial	July-August 2012	July 6, 2012	NIRMA[1], Summerlin, NV	_____
Plant Maint. & Advanced Reactors	Sep.-Oct. 2012	September 7, 2012	ANS, San Diego, CA	_____
Product & Service Directory 2013	**Nov.-Dec. 2012**	**November 9, 2012**	**Various Meetings in 2013**	_____
Intl. Trade & Waste and Fuel Mgmt.	Jan.-Feb. 2013	January 18, 2013	WM'13, Phoenix, AZ	_____
Plant Maintenance & PLEX[2]	Mar-Apr 2013	March 8, 2013	NEI[3], & USA'13[4]	_____
Outage Management & Health Phys.	May-June 2013	May 3, 2013	ANS, Hollywood, FL	_____

[1] **NIRMA: Nuclear Information & Records Management Association**
[2] **PLEX: Plant Life Extension**
[3] **NEI: Nuclear Energy Institute's Annual Assembly, Washington, D.C.**
[4] **Utilities Service Alliance Executive Summit, TBD**

BPA WORLDWIDE BUSINESS

(Print Full Name) (Signature) (Date)

(Organization) (E-mail Address)

(Telephone Number) (Fax Number)

Nuclear Plant Journal
1400 Opus Place
Suite 904
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Full-Page Advertorial Sample

This is your free page where you may place additional company information.

Abstract

The Comex Nucléaire Engineering and Intervention departments have developed and performed a metallurgic maintenance operation on the adapter lip of the canopy seal welded with the reactor control rod drive mechanisms in an Electricité de France (EDF) electrical utility pressurized-water reactor (PWR) plant. This involved removing in-situ stress corrosion cracks and rebuilding an adapter lip with the exact original geometry. High dose rates in the repair zone necessitated the development of automated machines requiring very little human intervention. The method consists in removing the cracked lip on 360° and rebuilding it with a weld build-up deposited by orbital tungsten inert gas (TIG) welding around the adapter. The deposit is then machined by orbital milling to the initial dimensions of a new lip and controlled. The entire operation was qualified in France and was implemented on the Bugey plant Unit 5 in 2001.

Introduction

The maintenance operation presented here involves repairing the canopy lip of a PWR reactor vessel head adapter by removing stress corrosion crack indications and rebuilding an identical lip by automated means.

We made the decision to present this specific maintenance operation on a large component of the PWR power plant's main primary system because this is representative of Comex Nucléaire's skills and means in the following areas:

- PWR environment and regulation
- Design of special remote-operated tooling (machining, welding, NDT and video monitoring)
- Development of automated welding procedures
- Intervention means in terms of human resources and equipment for all of said technologies

Defect Origin and Position

The indications noted by EDF following video-monitoring inspection and dye-penetrant inspection of the lower canopy seal joining the adapters penetrated the reactor vessel head either to the control rod drive mechanism or to the thermocouple instrument port. The crack indications subject of this repair were located at the root of the machined lip in the adapter and formed the lower section of the welded seal. This zone is in the stainless steel 304L section of the adapter above the bi-metallic weld (inconnel/stainless steel 304L).

The lower canopy seal is only an integrity seal weld and the hydrostatic end force generated by the primary system pressure is entirely supported by the thread on which the control rod drive mechanism (CRDM) is screwed. Development of this type of crack could potentially lead to a primary coolant leakage on the reactor vessel head. The decision to repair was made based on this risk.

Analyses conducted by EDF revealed a risk of stress corrosion in this area. Three factors promoting this phenomenon are present:

- Welding the canopy seal to the CRDM assembly gives rise to residual tensile stress loading at the adapter lip root
- Under operation, temperature in this zone is high throughout the entire cycle
- The presence of stagnant water could present a specific chemical composition or even a water/vapor/air interface zone

Info for Advertisers

You may place your text on the left or right page according to your preference. Fonts used in the advertorial must be Adobe Type I fonts. TrueType fonts are not accepted. The current type specifications are Helvetica and Times. Specifications for preparing electronic ad files are given in Items 8 and 18 (Pages 7 and 8 respectively) of the Rate Card.

Repair Objectives and Initial Design Restraints

The repair objective was to remove the defects at the lip root and rebuild a lip to finally allow EDF to reassemble a standard CRDM by means of the usual canopy seal weld process.

For this, the given technical objectives were:

- To remove cracks at the root up to a depth of 4mm in the adapter
- To ensure that the initial design with respect to the shape and dimensions of the lip and adapter is maintained. This leads to a welding process with low deformations and to a machining process that respects complicated shapes and tight tolerances
- To ensure weldability with a standard CRDM from a metallurgic point of view
- To ensure surface conditions and surface stress loading that will not promote stress corrosion
- To control the result in accordance with French regulations
- To be able to intervene in-situ on adapters in all types of French PWRs (900MWe, 1,300MWe, 1,450MWe)
- To take significant dose rates into consideration in the work zone, which necessitates the design of procedures limiting human intervention

This is sample text from Nuclear Plant Journal.

Nuclear Plant Journal

An International Publication
Published in the United States

Free Ad Space & Free Vendor Profile on NPJ Website

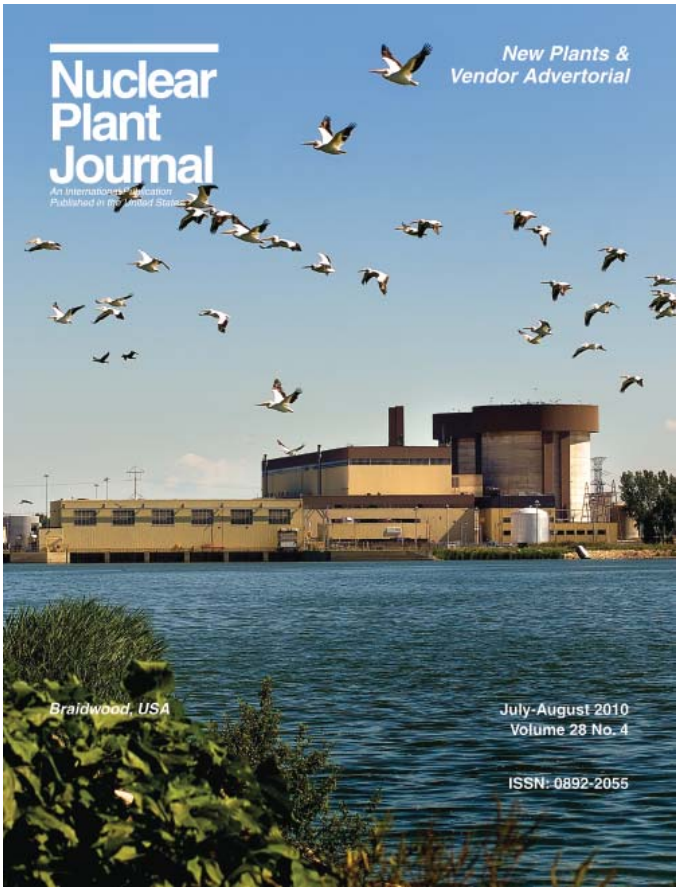
Commitment Deadline: July 6, 2012

Advertisers in the July-August, 2012 New Plants & Vendor Advertorial Issue are entitled to an equivalent amount of free advertorial space in the same issue.

NPJ Digital Version

2012 issues of Nuclear Plant Journal are also published in Digital format. To subscribe go to www.nuclearplantjournal.com and click on the "Subscription" button in the middle of the top row.

Nuclear Plant Journal
Phone: (630) 858-6161, ext. 103
Fax: (630) 852-8787
http://www.nuclearplantjournal.com.
E-mail: michelle@goinfo.com



Sample Full- Page

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1/2-Page Island Advertorial Advertising Sample

off-the-shelf HP workstation. By means of SIVAT, the generated C-code is first automatically instrumented so that the analyses of the specified functionality can be performed by test scripts that trigger input data trajectories. Furthermore, the resultant output signals are able to be compared to specified expectations.

The following types of tests are supported by SIVAT:

- Static analysis with step-by-step modified input data
- Dynamic open-loop tests by scheduled input data trajectories
- Dynamic closed-loop tests by linking the generated code to a plant simulator code as used for the plant safety analysis

The essential advantage for ensuring that the final software quality is the same code that is intended for integration into the target system is also the object of the activities that validate the functional specification.

Furthermore, by means of SIVAT, the behavior of the TELEPERM XS system, which is to be expected after final integration, can already be assessed without the need for the availability of the target system.

The transients used for validation will be selected as representatives for the range of applicable conditions with respect to safety and operational requirements.

In order to validate in a first step the specified functionality (functional validation), the automatic code may already be generated for a single-redundancy input specification. For such a single-redundancy input specification, the input signals may be specified only as input types (e.g. coolant pressure, inlet and outlet temperature) without the need to clarify the redundancy, identification code and marshalling of the physical input signals.

With respect to the complete TELEPERM XS engineering process, the same test scripts that are used to specify the test cases for SIVAT testing can be processed automatically by the system ERBUS for system validation in the test field. This enables a simple comparison between SIVAT testing of the application software (without target system) and system validation in the test field of the integrated target system.

The quality of the tool-based engineering ensures excellent preconditions for successful system integration into the plant and performance of final site acceptance tests without the

1/3-Page Advertorial Advertising Sample

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Furthermore, by means of SIVAT, the behavior of the TELEPERM XS system, which is to be expected after final integration, can already be assessed without the need for the availability of the target system.

The transients used for validation will be selected as representatives for the range of applicable conditions with respect to safety and operational requirements.

In order to validate in a first step the specified functionality (functional validation), the automatic code may already be generated for a single-redundancy input specification. For such a single-redundancy input specification, the input signals may be specified only as input types (e.g. coolant pressure, inlet and outlet temperature) without the need to clarify the redundancy, identification code and marshalling of the physical input signals.

With respect to the complete TELEPERM XS engineering process, the same test scripts that are used to specify the test cases for SIVAT testing can be processed again by our test system ERBUS for system validation in the test field. This enables a simple comparison between SIVAT testing of the application software (without target

14. Premium Position Ads

All premium position ads will be four-color. Clip-coupons are not permitted as a part of the premium position ads. Additional costs (indicated as a percentage of the space rate) for premium position ads are (A) 10% for pages 3, 4, 7, the inside back cover, or any mutually agreed upon fixed position (B) 15% for the inside front cover and (C) 20% for the back cover.

15. Terms:

A. The advertising organization, whose advertisements appears in the Journal, will be directly responsible for the payment to *Nuclear Plant Journal,* even if such advertisements are placed by an agency.

B. Advertisers must provide *Nuclear Plant Journal* with a current contact name and e-mail address or fax number for use in the Rapid Response Form.

C. A price reduction or a rerun of advertisements will not be provided due to printing errors that do not impair the advertisement's message.

D. On multiple insertion orders, the most recent ad copy will be inserted in the Journal, unless new copy is received by the material due date.

E. Ad cancellations are not accepted after the commitment deadline. The canceled ads will be subject to full cost.

F. Earned rates will be applied to incomplete contracts.

G. All submitted ad media will be stored for one year and discarded thereafter unless the client requests its return.

H. The publisher is not responsible for advertisements' contents.

I. Position requests will be honored wherever possible, but they cannot be guaranteed.

J. Bonus circulation, Internet coverage and Rapid Response Form services are provided at no cost. Price reductions or refunds on space advertising costs are not allowed for any deficiency in these services.

16. Print-Ready Electronic Ad Specifications:

A. Preferred Mode of File Transmittal: High resolution PDF: The preferred method of material transmittal is via high resolution CD sent to Nuclear Plant Journal's office. Additional specification are available via e-mail.

B. Intimation & Proof: The advertising materials may also be e-mailed to NPJ@goinfo.com and color proof sent to Nuclear Plant Journal. PDF file proofs are acceptable. Any deviations in the client's submitted file as compared to specifications given below must be brought to our attention via email: NPJ@goinfo.com) before the material deadline.

C. Preferred File Format: PDF files are preferred as a finished file format. When supplying PDF files, please ensure the following procedures before creating the file. All art, fonts, graphics, images must be embedded prior to creating the PDF. PDFs should not contain: color profiles, RGB or LAB color images, all images must be CMYK and spot color unless it is intended to print. All images should be 300 dpi (dots per inch) resolution or higher

D. Acceptable Finished File Formats: DCS 2.0, PDF, Postscript, Tiff/It, Scitex CT/LW.

E. Acceptable Native Files: QuarkXpress 4.1 or higher, Adobe Pagemaker 6.5.2 or higher, Adobe InDesign 2.0.2 or higher, Adobe Acrobat 5.x or higher, Adobe Photoshop 2.5.2 or higher, Adobe Illustrator 5.5 or higher, Macromedia Freehand 5.5 or higher. Adobe Illustrator and Macromedia Freehand native art should be saved as an eps.

F. Unacceptable File Formats: Native Illustrator and Freehand, Microsoft Word, Microsoft Powerpoint, Microsoft Excel, Microsoft Publisher and Corel Draw.

G. Charges for banner advertising are $2,700 per 6 months and $4,500 for the whole year. The banner locations will be provided on "first come" basis. Organizations should provide the URL to be linked from the banner.

2012 Rate Card

Volume 30

Nuclear Plant Journal

An International Publication
Published in the United States

www.NuclearPlantJournal.com

The Nov.-Dec. Issue is the Product & Service Directory

Advertising Rates & Data

Nuclear Plant Journal®
An International Publication
Published in the United States

BPA WORLDWIDE BUSINESS

1. Objectives:

- To provide educational, research, and technical information exchange among managers and engineers in the nuclear power industry worldwide.
- To promote trade among nuclear energy-related organizations in the United States and worldwide.

2. Editorial Profile:

Nuclear Plant Journal includes technical papers, informative articles and departments aimed at developing better methods, systems, products and services in the nuclear power industry. The Journal is compiled through the research efforts of managers and professional engineers who are specialists in their respective fields.

3. Editorial Schedule:

The Journal follows a cyclic editorial schedule with respective issues indicated below:

January-February
International Trade and Waste & Fuel Management

March-April
Plant Maintenance & Plant Life Extension

May-June
Outage Mgmt. & Health Physics

July-August*
New Plants & Vendor Advertorial

September-October
Plant Maintenance & Advanced Reactors

November-December
Annual Product & Service Directory

***Advertorial Issue:**
Advertisers will be provided cost-free space for their advertorial, which will be the same size as the advertisement they have committed in the July-August Advertorial issue.

4. Audience:

Nuclear Plant Journal has a total circulation of more than 12,000 readers, including more than 4,500 utility recipients—the highest among U.S. publications serving the commercial nuclear power generation industry.[2]

The Journal is published in "Printed" as well as "Digital" versions.

5. Commission:

An agency commission, 15% of costs on space, color and position, is allowed to recognized agencies.

6. Format:

	Full Page	2-Page Spread
Trim	8-1/4" x 10-7/8"	16-1/2" x 10-7/8"
Image Size	7" x 10"	15" x 10"
Bleed Size	8-1/2" x 11-1/8"	16-3/4" x 11-1/8"

7. Printing & Binding:

Web Offset (Saddle-Stitched, except the annual Directory issue, which is Perfect-Bound).

8. Advertisement Dimensions (Inches):

Page Size	Format	Width	Depth
Full	Vertical	7	10
2/3	Vertical	4-9/16	10
	Horizontal	7	6-5/8
1/2	Horizontal	7	4-7/8
	Vertical	3-3/8	10
	Island	4-9/16	7-3/8
1/3	Horizontal	4-9/16	4-7/8
	Vertical	2-3/16	10
1/4	Horizontal	7	2-3/8
	Vertical	3-3/8	4-7/8
1/6	Horizontal	4-9/16	2-5/16
	Vertical	2-3/16	4-7/8

9. Payment Terms:

Payment is due within 30 days from the date of the invoice. A 1.5% monthly service fee will be added to overdue accounts. A 2% discount on the net amount will be allowed for prepayment. First-time Journal advertisers must pay for advertisements prior to publication.

10. Send Ad Materials and All Inquiries to:

Nuclear Plant Journal, 1400 Opus Place, Suite 904, Downers Grove, IL 60515 USA; Phone: (630) 858-6161, X103, Fax: (630) 852-8787, E-mail: NPJ@goinfo.com
Web: www.NuclearPlantJournal.com

11. 2012 Advertising Rates:

Product & Service Directory rates are the same as those for all other issues.

Price in U.S. dollars per black and white advertisement.

Size	1x	3x	6x	12x
2-page	$7,188	$6,864	$6,529	$6,168
Full page	$3,595	$3,432	$3,264	$3,084
2/3 page	$2,880	$2,731	$2,677	$2,437
1/2 page	$2,275	$2,219	$2,152	$1,918
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1/4 page	$1,172	$1,117	$1,068	$1,002
1/6 page	$903	$862	$811	$775

12. Additional Rates for Color:

- Second color: (matched or process) $500
- Four-color process, per page or fraction $850
- Four-color process, 2-page spread $1,500
- Bleed ..... No charge

13. Advertising Closing Dates:

Issue	Commitment	Material
Jan.-Feb. 2012	Jan. 20, 2012	Jan. 27, 2012
Mar.-Apr. 2012	Mar. 9, 2012	Mar. 16, 2012
May-Jun. 2012	May. 4, 2012	May. 11, 2012
Jul.-Aug. 2012	July. 6, 2012	July. 13, 2012
Sept.-Oct. 2012	Sept. 7, 2012	Sept. 14, 2012
Product & Service Directory - 2013 (Nov.-Dec. 2012)	Nov. 9, 2012	Nov. 16, 2012
Jan.-Feb. 2013	Jan. 18, 2013	Jan. 25, 2013
Mar.-Apr. 2013	Mar. 8, 2013	Mar. 22, 2013
May-Jun. 2013	May 3, 2013	May 10, 2013
Jul.-Aug. 2013	July. 12, 2013	July. 19, 2013
Sept.-Oct. 2013	Sept. 6, 2013	Sept. 13, 2013
Product & Service Directory - 2014 (Nov.-Dec. 2013)	Nov. 8, 2013	Nov. 15, 2013

[2]All circulation information is subject to BPA Worldwide audit.

Revision Date: October 2011