MEETING ANNOUNCEMENT

"Fuel Reliability: Successes and Challenges"

Invited Plenary Sessions
• Fuel Reliability Successes and Challenges – Utility Perspectives
• Fuel Reliability Successes and Challenges – Vendor Perspectives

Technical Tracks
• Advances in Nuclear Fuel Design and Fabrication
  * Fuel Design and Manufacturing
  * Advanced Fuel
  * Vibration/Fretting Studies
• LWR Fuel Performance and Operational Experience
  * PWR/BWR/VVER Fuel Performance
  * Fuel Failure Experience and Investigations
  * MOX Performance
• Fuel Cycle, Spent Fuel, Storage and Transportation
• Transient Fuel Behavior and Fuel Performance Methodologies and Test Facilities
  * Fuel Behavior Modeling, including General Methodologies, Fission Gas Release, and Defective Fuel
  * Transient Fuel Behavior, including RIA and LOCA

Sponsored by
American Nuclear Society • European Nuclear Society • Atomic Energy Society of Japan • Nuclear Energy Agency
Meeting Officials

<table>
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<tr>
<th>Name</th>
<th>Organization</th>
<th>Position</th>
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<tr>
<td>J. Art Stall</td>
<td>FPL-USA</td>
<td>General Chair</td>
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<tr>
<td>Masato Idesawa</td>
<td>JAPC-Japan</td>
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<td>Wolf-Dieter Krebs</td>
<td>Framatome ANP–Germany</td>
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<td>Rosa Yang</td>
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<td>Michio Yamawaki</td>
<td>Tokai Univ-Japan</td>
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<tr>
<td>Michel Debes</td>
<td>EDF–France</td>
<td>Technical Program Chair</td>
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Contributing Organizations
AREVA
EPRI
FirstEnergy
Southern Nuclear Energy Company
STP Nuclear Operating Company

Meeting Highlights

**Sunday, September 19, 2004**
4:00 p.m. – 6:00 p.m. Opening Reception*

**Monday, September 20, 2004**
8:00 a.m. – 10:00 a.m. Invited Plenary Session- Utility Perspectives
10:30 a.m. – 12:30 p.m. Invited Plenary Session - Vendor Perspectives
12:30 p.m. – 2:00 p.m. Meeting Luncheon*
2:00 p.m. – 3:00 p.m. Poster Session: Fuel Performance, Fuel Design, Spent Fuel & Transportation
3:00 p.m. – 5:00 p.m. Plenary Session: PWR/BWR/VVER Fuel Performance

**Tuesday, September 21, 2004**
8:00 a.m. – 10:00 a.m. Plenary Session: Fuel Design
10:30 a.m. – 12:30 p.m. 2 Concurrent Sessions: Fuel Design, Transient Fuel Behavior
12:30 p.m. – 2:00 p.m. Meeting Luncheon*
2:00 p.m. – 3:00 p.m. Poster Session: Fuel Performance, Transient Fuel Behavior, Modeling
3:00 p.m. – 5:00 p.m. Plenary Session: Transient Fuel Behavior

**Wednesday, September 22, 2004**
8:00 a.m. – 10:00 a.m. Plenary Session: Fuel Behavior Modeling
10:30 a.m. – 12:30 p.m. 2 Concurrent Sessions: Fuel Performance, Modeling
12:30 p.m. – 2:00 p.m. Meeting Luncheon*
2:00 p.m. – 3:00 p.m. Poster Session: Modeling, MOX
3:00 p.m. – 5:00 p.m. Plenary Session: MOX Performance

* Included with Meeting Registration.
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RESTAURANTS
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Hemisphere Restaurant is located on the 9th floor of the hotel. With an expansive view of the runways - you'll be dreaming of destinations far away as you enjoy their options of full service or breakfast buffet. In the evening a menu filled with the chef's culinary delights, an attentive staff and an airport under lights will have you planning your return. The cuisine is described as "seasonally inspired."

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Orlando Information & Attractions
Sea World
Universal Studios
Walt Disney World Resort
Technical Program

NOTE: This is a tentative listing of papers. A detailed listing of the schedule and sessions will be available in the Preliminary Program.

Invited/Papers
1114 Westinghouse Fuel Direction, M. Mutyala (Westinghouse-USA)
1113 Our New Roles in Helping the Public Have a Wide Knowledge on Nuclear Utilization as a Common Sense Based on the Japanese Experiences, M. Idesawa (AUPC-Japan)

Track 1.00: Advances in Nuclear Fuel Design and Fabrication

1.01 Fuel Design-General
1115 R&D Results for a New Generation of the TVS-2 Fuel Assemblies for a WWER-1000, V. Tsvetovoy (V. Tsvetovoy-Russia), A. Buriy (USC NCCP-Russia), V. Vasilchenko (EDO Gidropress-Russia), V. Molchanov (IJS TVE-L-Russia)
1053 Azimuthal Heat Transfer Variation Downstream of Grids with Mixing Vanes, M.E. Conner, L.D. Smith, III, M.Y. Young (Westinghouse Nuclear Fuel-USA)
1098 Core Design of the EPR in Finland (Okladno 3) - Safety, Flexibility and Economy, D. Porsch (Framatome ANP), F. Foret (Framatome ANP), E. Mannola, M. Solva (TVE-Finland)
1084 Experimental Studies of Strength, Stability, and Deformation of Non-Irradiated fa for WWER-1000 Variation, V.V. Makarov, A.V. Afanas'ev, A.V. Seleznev, I.N. Vasilchenko, C.N. Kobelev (FSUE OKB Gidropress-Russia)

1.02 Fuel Design-Advanced Fuel
1108 The Design and Manufacturing of Annular Fuel for High Power Density and Improved Safety in PWRs, P. Heijzlar, D. Feng, Y. Yuan, M.S. Kazimi (MIT-USA), H. Feinroth, B. Hao (Gamma Engineering-USA), E.J. Lahoda (Westinghouse-USA), H. Hamilton (AECI, Chalk River Laboratories-Canada)
1079 Liquid-Metal-Bonded Gap for Light Water Reactor Fuel Rods, D. Wongsaawaeng, D. Olander (Univ of California/Berkeley-USA)
1028 The Polymer Impregnation and Pyrolysis Method for Producing High Conductivity LWR Fuels, J. Fourcade, S.-G. Lee, S. Kuchibhotla, A.A. Solomon (Purdue Univ-USA)

1.03 Fuel Design-Fretting
1091 Methodology of PWR Fuel Rod Vibration and Fretting Evaluation in HERMES Facilities, J. Vailloy (CEA-France)
1049 Non-linear Fuel Rod Vibration Model: Parametric Studies, P.R. Rubiolo (Westinghouse-USA)
1027 Mechanisms for Flow-Induced Vibration of Nuclear Fuel Rods, R.O. Pomirleau (Westinghouse-USA)
1005 Investigation of Slipping Behaviour at the Grid-to-Rod Contact in Fuel Rod Fretting, H.K. Kim, Y.H. Lee, J.S. Song, Y.H. Jung (KAERI-Korea)

1.04 Fuel Manufacturing
1074 Cross-qualifications in French and German Framatome ANP Fuel Sector manufacturing plants, Florence Guyot (Framatome ANP-France), Bernd Beuerlein (Framatome ANP-Germany), Bernard Grattier (FBFC)

Track 2.00: LWR Fuel Performance and Operational Experience

2.01 Fuel Performance
1103 Westinghouse BWR Control Rod Technology, B. Rebsdorff, L. Hallstadius, R.M. Matheny (Westinghouse-Sweden)
1101 Diffusion Coefficients of Fission Gases in Thoria-urania and Simfuel Pellets, K. Park, D. Lee (Kyung Hee Univ-Korea), H. Kim, B.G. Kim, Y.S. Choo, K.S. Kim, K.W. Song, K.P. Hong, K. Song, K. Kang, Y.H. Kang, H. Ryu (KAERI-Korea)
1101 Diffusion Coefficients of Fission Gases in Thoria-urania and Simfuel Pellets, K. Park, D. Lee (Kyung Hee Univ-Korea), H. Kim, B.G. Kim, Y.S. Choo, K.S. Kim, K.W. Song, K.P. Hong, K. Song, K. Kang, Y.H. Kang, H. Ryu (KAERI-Korea)

2.02 Fuel Performance-BWR
1105 Post-irradiation Characterization of High-Burnup BWR Fuel, C. Patterson, D. Lutz, T. Mahmood, D. Sheppard (Global Nuclear Fuel-USA), M. Eyre (Exelon Nuclear-USA), K. Edsinger (EPRI-USA)
1076 Current Fuel Performance and Future Trends at Japanese Boiling Water Reactors, H. Kitamura, Y. Otsuka (TEPCO-Japan)
1073 Performance of Framatome ANP Advanced Fuel Products under PCI Conditions, B. Julien (Framatome ANP-USA)
1069 Effect of Noble Metal Chemical Application on Fuel Performance, K. Turnage (Southern Nuclear-USA), B. Cheng, R. Pathania (EPRI-USA), G. Potts, D. Lutz (Global Nuclear-USA), R. Rohrer (Nuclear Management-USA), M. Eyre (Exelon-USA)
1063 Performance of Framatome ANP BWR Fuel Rods, A. Seibold (Framatome ANP-Germany), R.S. Reynolds (Framatome ANP-USA)
1059 Post-Irradiation Examination and Ramp Testing of Fuel Rods with Fe-Enhanced Zr Liner Cladding at High Burnup, P.B. Hoffmann, P. Dewes (Framatome ANP-Germany)

1054 Challenges for High Burnup Fuel Rod Designs, R.A. Rand (Global Nuclear Fuel-USA)

1046 In-pile Testing of Liner Cladding and Pellet Performance in Failed Fuel Rods, J. Karlsson, G. Lysell (Studsvik Nuclear AB-Sweden), H. Pettersson (Vattenfall Bränsl AB-Sweden), G. Rönnberg (OKG AB-Sweden)


1043 Effect of Beta-Quenching Rate on Zircaloy Uniform Corrosion Performance, T. Andersson (Sandvik Materials Technology-Sweden), M. Dahlbäck, M. Limbäck (Westinghouse-Sweden), A.R. Massih (Quantum Technologies, Malmö Univ-Sweden)


1016 Fuel Failures During Cycle 11 at River Bend, E.J. Ruzauskas (AREVA-USA), D.L. Smith (Entergy-USA)

2.03 Fuel Performance-PWR

1100 EDF PWRs fuels: Operating Experience and High Burn-up Strategy, J.L. Provost, M. Debes (EDF-France)

1099 EDF’s Fuel Performance: Impact On Fuel Cycle Management And Perspectives, M. Debes (EDF-France)

1092 The Japanese PWR Fuel Performance, Past, Present and Future, K. Ishiguma (Japan Atomic Power Company-Japan)

1070 Crud-Induced Cladding Corrosion Failures in TMI-1 Cycle 10, R. Tropasso (Exelon-USA), J. Willse (Framatome ANP-USA), B. Cheng (EPRI-USA)

1066 Effect of the Nb/Fe Ratio on Corrosion and Oxide Characteristics of Zr-xNb-yFe Alloys, Y.H. Jeong, H.G. Kim, J.Y. Park (KAERI-Korea)

1062 Advanced Fuel Implementation at Calvert Cliffs 1 and 2, Z. Karoutas (Westinghouse-USA), P. File (Constellation Nuclear-USA), M. Martin (Westinghouse-USA)

2.04 MOX Fuel

1109 High Burnup PWR and BWR MOX Fuel Performance: A Review of BELGONUCLEAIRE Recent Experimental Programs, D. Boulanger, M. Lippens, L. Mertens, J. Basselier, B. Lance (Belgonucleaire-Belgium)

1075 MOX Fuel Experience: Current Status and Future Improvements, P. Bianpain (Framatome ANP-France), M. Arslan (COGEMA-France), K. McCoy (Framatome ANP-USA), W. Goll (Framatome ANP GmbH-Germany)

1034 Radionuclides Release from Mixed-Oxide Fuel under Severe Accident Conditions, A. Hidaka, T. Kudo, T. Kanazawa, T. Fuketa (JAERI-Japan)

1031 Performance of ATR MOX Fuel Assemblies Irradiated to 40GWD/t, T. Ozawa, Y. Ikusawa, T. Abe (Tokai Works JNC-Japan), K. Maeda (I0-ari Engineering Center JNC-Japan)


1014 Thermal/Hydraulic Behavior Calculations for Weapons-Derived MOX Fuel With Comparison to PIE Observations, L.J. Ott (ORNL-USA)

1013 Post-Irradiation Examinations of FMDP Weapons-Derived MOX Fuel, R.N. Morris, C.A. Baldwin, N.H. Packan (ORNL-USA)

1012 Irradiation Tests of Mixed-Oxide Fuel Prepared with Weapons-Derived Plutonium, S.A. Hodge, L.J. Ott (ORNL-USA)

1010 Radial Depletion Profile Characteristics of WG-MOX Fuel Pellet In ATR and PWRa,b, C.S. Chang, R.C. Pedersen (INEL-US)

1009 Conversion of Surplus Plutonium to Mixed Oxide Fuel for Commercial Nuclear Power Plants, A.M. Chocho, E. Brabazon (Duke, Cogema, Stone & Webster-USA), J.L. Johnson (US DOE-USA)

Track 3.00: Fuel Cycle, Spent Fuel Storage and Transportation

1112 Corrosion Behaviour of MOX Fuel in Presence of Groundwater, J. Cobos, V.V. Rondinella, T. Wiss, C. Ronchi (Joint Research Centre, Institute for Transuranium Element-Germany)

3.01 Spent Fuel

1107 Assessment of the Commercial Spent Nuclear Fuel Source Terms for Long Term Dry Storage and Geological Disposal: Major Outcomes of the French R&D PRECCI Project, C. Poinssot, C. Ferry, P. Lovera (CEA-France)

1106 Maximum Cladding Stresses for Bounding PWR Fuel Rods During Short Term Operations for Dry Cask Storage, C. Brown, J. Guttmann (US NRC-US), C. Beyer, D. Lanning (PPNL-US)

1064 Understanding Hydride- and Hydrogen-related Processes in High-burnup Cladding in Spent-fuel Storage and Accident Situations, H.M. Chung (Argonne-US)

3.02 Transportation

1001 FRAMATOME-ANP France U02 Fresh Fuel Transportation - Criticallity Application of the IAEA TS-5-R-1 Regulations, N. Doucet, N. Comte, M. Landrieu, S. Zheng (Framatome ANP-France)

1055 Development of Shipping Package Drop Analysis Capability at Westinghouse, J.F. Staples (BNFL/Westinghouse-USA), P. DuBois, M. Pitzer (Hermes Engineering-USA)

Track 4.00: Transient Fuel Behavior and Fuel Performance Methodologies and Test Facilities

4.01 Modeling-General

1111 AREVA Advances in PWR Core Monitoring, M. Beczkowiak (Framatome ANP GmbH-Germany), J.L. Mourlevat (Framatome ANP SAS-France), T.A. Wells (Framatome ANP-USA)

1097 Modifications to FRAPTRAN to Predict Fuel Rod Failures Due to PCMI during RIA-Type Accidents, K.J. Geelhood, C.E. Beyer, M.E. Cunningham (PNNL-US)

1093 FRAPCON-3 Code Updated with MOX Fuel Properties, D.D. Lanning, C.E. Beyer, K.J. Geelhood (PPNL-USA), N. Gercek (TAEK-Turkey)

1090 Capabilities of the FALCON Steady State and Transient Fuel Performance Code, W. F. Lyon, R.O. Montgomery (Anatech-USA), S. Yagnik (EPRI-USA)

1078 Effect of Spacer Eccentricity on Zinc Injected Flow, R. Morita, H. Kawamura, H. Kanbe, F. Inada, K. Yoneda, M. Kinosita (CRIEPI-Japan)


1047 Modeling Pellet-Cladding Mechanical Interaction and Application to BWR Maneuvering, M.R. Billaux (AREVA-USA)

1038 Realistic Estimation of the Fluxes Received by Mobile Absorbers, M. Bouffier, C. Forat, P.H. Louf (Institute for Nuclear Fuel Cycle Technology-Sweden), H. Pettersson (Vattenfall Bränsl AB-Sweden), G. Rönnberg (OKG AB-Sweden)

1007 Study of DNB In Case of Non-Uniform Heat Flux along the Channel Length, Yu.A. Bezrukov, Yu.G. Dragunov, V.I. Astakhov, S.A. Logvinov (OKB Gidropress-Russia)
4.02 Modeling-Fission Gas Release
1072 Two-Step Two Stage Fission Gas Release Model, Y.S. Kim (Hanyang Univ-Korea), C.B. Lee (KAERI-Korea)

1071 Major Sensitivities of Fission Gas Release Modelling within the FRAPCON-3 Code, I. Vallejo, M.T. del Barrio, L.E. Herranz (CIMAT-Spain)

1057 Fission Gas Release of Heterogeneous Fuels for Plutonium Burning, A. Romano (MIT-USA, PSI-Switzerland), Y. Long (Westinghouse-USA), W. Liu, M.S. Kazimi (MIT-USA)

1029 Mechanistic Fission Gas Release and Swelling Model - MEMFIS, V.I. Arimescu (AREVA-USA)

4.03 Modeling-Fuel
1104 Isotopic Analysis of Irradiated Fuel Samples in the Studsvik Hot Cell Laboratory, H.U. Zwicky (Zwicky Consulting GmbH-Switzerland), J. Low, J. Klerksgaard, D. Schrire (Studsvik Nuclear AB-Sweden), M. Quecedo (ENUSA-Spain)

1087 Characterization of Radiation Damage in Reactor-Irradiated and Alpha-Damaged Fuels, D. Staicu, T. Wiss, V.V. Rondinella, C. Ronchi URC/ITU Karlsruhe - Germany)


1081 Thermo-Physical Modelling of High Burnup WWER Fuel by the RTOP Code, O.V. Khoruzhii, V. D. Kanyukova, V. Likhanskii, A. A. Sorokin (SRC of RF TRINITI-Russia)


4.04 Modeling-Defective Fuel
1083 Modeling of Fission Product Release from Defective Fuel Rods under WWER Operation Conditions and in Leakage Tests during Refueling, V. Likhanskii, E. Afanasieva, I. Evdokimov, V. Kanukova, O. Khoruzhii, A. Sorokin (SRC of Russia Troitsk Institute for Innovation and Fusion Research-Russia), V. Novikov (VNIINM-Russia)


4.05 Transient Fuel Behavior-I
1110 Recent Data on MS™ Alloy under RIA and LOCA Conditions, J.P. Mardon (Framatome ANP SAS-France), A. Lesbros, C. Bernaudat, N. Waeckel (EDF/SEPTEN-France)

1067 Nb Effects on Oxidation Behaviors of Zr-xNb in LOCA Temperature Range, J.H. Baek, K.B. Park, Y.H. Jeong (KAERI-Korea)

1039 Results from Simulated LOCA Experiments with High Burnup PWR Fuel Cladding, F. Nagase, T. Fuketa, M. Ozawa, F. Nagase (JAERI-Japan)

1023 PWR Rod Ejection Analysis with the 3-Dimensional Transient Core Simulator PANBOX , K. Kuehnel, D. Jeniche (Framatome ANP GmbH-Germany)

1021 RIA Analysis for PWR at Both HZP and HFP Operation and all Cycle Fuel Exposure with 3D Techniques, J. Riverola, T. Nuñez, J. Vicente (ENUSA Industrias Avanzadas-Spain)

1017 Mechanical Properties of High Burnup BWR Fuel Cladding Tubes under Simulated RIA Conditions, M. Nakatsuka, K. Une, K. Tokunaga (Global Nuclear Fuel-Japan), T. Ohta (TEPCO-Japan)

1006 Assessment of Burnup-dependent Fuel Rod Failure Threshold under Reactivity-initiated Accidents in Light Water Reactors, J. In de Betou (Swedish Nuclear Power Inspectorate-Sweden), L.O. Jernkvist (Quantum Technologies AB-Sweden), P. Rudling (ANT International-Sweden), G. Rönning (OKG AB-Sweden), M. Stepniewski (Vattenfall Brånsle-Sweden)

4.06 Transient Fuel Behavior-II
1094 Resolving our Understanding of REP-Na1 Microstructural Analysis, R.L.Yang (EPRI-USA)

1080 Evaluation of Recent RIA-Simulation Experiments with the FALCON Fuel Performance Code, D. Sunderland, R. Montgomery (ANATECH-USA), O. Ozer (EPRI-USA)

1056 Modelling High-Burnup LWR Fuel Fission Gas Release and Swelling during Fast Transients, W. Liu, A. Romano, M.S. Kazimi (MIT-USA)


1025 RIA Analysis for PWR at Both HZP and HFP Operation and all Cycle Fuel Exposure with 3D Techniques, J. Riverola, T. Nuñez, J. Vicente (ENUSA Industrias Avanzadas-Spain)
Meeting Registration Form

2004 International Meeting on LWR Fuel Performance
SPONSORED BY: THE AMERICAN NUCLEAR SOCIETY; THE ATOMIC ENERGY SOCIETY OF JAPAN; AND THE EUROPEAN NUCLEAR SOCIETY

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Full Meeting Registration - 2004 International Meeting on LWR Fuel Performance
(includes one (1) ticket to the following events: Opening Reception; Monday, Tuesday and Wednesday Luncheons; and a copy of the Meeting Proceedings on CD-Rom.)

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<th>Speaker/Session Chair Registration</th>
<th>PREREGISTRATION</th>
<th>On-Site Registration or</th>
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<tr>
<td>ANS/AESJ/ENS Member</td>
<td>Non-Member</td>
<td>ANS/AESJ/ENS Member</td>
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<tr>
<td>[01] ☐ $695</td>
<td>[02] ☐ $795</td>
<td>[03] ☐ $745</td>
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Additional Tickets
Opening Reception [21] # of tickets ___ @ $55 each = $_____
Monday Luncheon [22] # of tickets ___ @ $40 each = $_____
Tuesday Luncheon [23] # of tickets ___ @ $40 each = $_____
Wednesday Luncheon [24] # of tickets ___ @ $40 each = $_____

Grand Total and Form of Payment for Meeting Registration and Additional Tickets
Grand Total of ALL functions and events: $ __________

Method of Payment
☐ Check ☐ American Express ☐ VISA ☐ MasterCard ☐ Diners Club ☐ Wire Transfer

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HOTEL RESERVATION FORM

Hyatt Regency Orlando International Airport
Orlando, FL

2004 International Meeting on LWR Fuel Performance
SEPTEMBER 19-22, 2004

RESERVATION DEADLINE: AUGUST 27, 2004

PLEASE PRINT OR TYPE

Guest Names(s):

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City/State/Zip: Country:

Telephone: Facsimile: Email:

Arrival Date: Departure Date:

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Special Request
☐ Smoking ☐ Non-Smoking ☐ Handicap Accessible

Room Type
☐ 2 Double Beds – $139.00 ☐ King – $139.00 ☐ Executive King/Double – $164.00

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Credit Card Number: Expiration Date: Deposit Amount:

Cardholder’s Name: Cardholder’s Signature:

*Rooms are subject to 6.5% sales tax and 5% occupancy tax, subject to change without notice. Credit card information must accompany reservation to guarantee room. Reservations must be made by August 27, 2004. After this date, reservations are subject to availability. Note: Reserve your room early. If you include your fax or email, you will receive written confirmation of your reservation from the hotel.


• Reservations received after the deadline date will be subject to availability and will be charged at the hotel’s prevailing room rate.
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