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Three Mile Island Resources

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Archives & Special Collections
Waidner-Spahr Library
Dickinson College
P.O. Box 1773
Carlisle, PA 17013

717-245-1399

archives@dickinson.edu

Three Mile Island Alert

The Newsletter of Three Mile Island Alert

February 2001

Three Mile Island Nuclear Plant Passes Inspection

December 7, 2000, York Daily Record

It's good to be in the green.

And that's exactly where Three Mile Island is, according to the U.S. Nuclear Regulatory Commission's mid-cycle review of the nuclear power plant.

Each quarter, nuclear power plants nationwide look at how they're performing in certain areas and report their findings to the federal agency. The reviews cover everything from security to safety sirens.

The commission uses a color-coded system when evaluating nuclear power plants. Green is considered performance within an expected level. White is considered performance outside an expected range, but objectives are still being met. Yellow indicates objectives are being met, but with a minimal reduction in safety. Red indicates significant safety problems and a plant is shut down.

From April 2 to Sept. 30, Three Mile Island has been in the green,

according to the commission. That means that commission intends to follow the normal inspection program with respect to Three Mile Island.

Peach Bottom also performed well, but had some kinks with its Alert Notification System. That system alerts the public if there are problems at the plant. It is affiliated with Emergency Alert System, which directs people to tune into their television or radio stations for more information.

Staff at the Peach Bottom plant reported to the commission during the third quarter that some of its sirens were inoperable due to improper maintenance, according to the commission. For that reason, Peach Bottom was coded white in that area. The commission plans to perform two supplemental inspections to review Peach Bottom's long-term corrective actions, according to the commission.

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NRC Left Red-Faced by 21-year Consideration of Petition on ENO Criteria

from an October 23, 2000, Inside NRC article

In the wake of the 1979 meltdown at Three Mile Island-2, the Public Citizen Litigation Group and Critical Mass Energy Project petitioned the NRC for a rulemaking that would change its criteria for declaring an "extraordinary nuclear occurrence" (ENO). Last week, 21 years later, the agency denied the petition and withdrew a proposed rule that also suggested changes in the criteria.

"The timing was not our best moment," said NRC spokeswoman Mindy Landau. The commission and staff alike last week were red-faced about the agency's taking 21 years to address the petition even though they felt the ultimate decision was sound.

The NRC commission declared in April 1980, roughly nine months after receiving the petition, that the

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Three Mile Island Alert

Three Mile Island Alert (TMIA) is a non-profit citizens' organization dedicated to the promotion of safe-energy alternatives to nuclear power, especially to the Three Mile Island nuclear plant.

Formed in 1977 after the construction and licensing of TMI Unit-1 and the construction of the infamous Unit-2, TMIA is the largest and oldest safe-energy group in central Pennsylvania.

TMIA members interested in specific aspects of nuclear power are encouraged to join one of TMIA's committees. These committees include:

- Radiation Monitoring
- Low-level Radioactive Waste
- Health Effects of TMI
- Nuclear Plant Security

TMIA Planning Council

Eric Epstein, Chair
Bill Cologie, Vice-Chair
Betsy Robinson, Treasurer
Kay Pickering, Secretary
Mary Osborn
Scott Portzline

Publisher - Kay Pickering
Editor - David Raeker-Jordan

Three Mile Island Alert
315 Peffer Street
Harrisburg, PA 17102
Phone: (717) 233-7897
FAX: (717) 233-3261

On the Internet at:

WWW: <http://www.tmia.com>
&
Email: tmialert@home.com

Glossary of Terms

AmerGen - corporation comprised of British Energy and PECO Energy. This corporate entity owns and operates TMI-1 and Oyster Creek, and is contracted by GPU Nuclear to monitor TMI-2 during PDMS

B&W - Babcock & Wilcox, the company that supplied the TMI 1 & 2 reactors. B&W is now known as Framatome

BRP refers to the Bureau of Radiation Protection, Pennsylvania Department of Environmental Protection

BWR - Boiling Water Reactor

CPM refers to "counts per minute" or the number of radioactive disintegrations per minute

DEP - Pennsylvania Department of Environmental Protection

EPA - United States Environmental Protection Agency

Exelon - Corporate entity created by the merger of PECO Energy and Commonwealth Edison. This company is licensed to operate nuclear generating stations in Illinois and Pennsylvania

FirstEnergy - Electric company based in Ohio. FE and General Public Utilities have announced plans to merge in 2001. If the merger is approved, the newly formed company would be licensed to operate nuclear power plants in Ohio and Pennsylvania. This company would be responsible for decommissioning Saxton and TMI-2.

General Public Utilities - General Public Utilities Nuclear sold TMI-1 and Oyster Creek to AmerGen in 1999.

GPUN maintains a POL at TMI-2. General Public Utilities, GPUN's parent, is planning to merge with FirstEnergy.

MOX - Reactor fuel in which plutonium-239 is mixed with natural or re-processed uranium

MWe - Megawatts

NRC - United States Nuclear Regulatory Commission

NCV - Non-Cited Violation issued by the NRC in place of a more severe penalty (see Risk-Informed Approach)

pCi/m3 refers to picoCurries of radiation per cubic meter of air

PDMS - post-defueled monitored storage, which is the state in which TMI-2 is currently being kept

POL - Possession Only License, issued by the NRC for a non-operating nuclear reactor

PUC - Pennsylvania Public Utility Commission

PWR - Pressurized Water Reactor

Revised Reactor Oversight Process (ROP) - see Risk-Informed Approach.

Risk-Informed Approach - The NRC's "revised" oversight program for nuclear generating stations. This new protocol was implemented on April 2, 2000, and was designed to "reduce unnecessary regulatory burden" on the nuclear industry. (see NCV).

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The 97 sirens that are placed within a 10-mile radius of Peach Bottom were installed in the 1980s, said Ralph DeSantis, an Exelon spokesman for both Three Mile Island and Peach Bottom. The company became aware on Sept. 21 that 17 of those sirens needed to be fixed, he said. The 17 sirens were replaced and restored into working condition within about a day, DeSantis said.

Peach Bottom received another white score for improperly classifying waste that was shipped to a facility in South Carolina.

Neither incident at Peach Bottom should cause the plant's neighbors any concern, said Diane Screnci, spokeswoman for the commission. "There was no impact on public health and safety on either issue," Screnci said.

Dave Lochbaum, a nuclear safety engineer with the non-profit group Union of Concerned Scientists in Washington D.C., believes a white score in an area is not necessarily a bad thing.

"White is a sign of performance dropping, a flag has been raised and the owner needs to do better," he said. "Because you're white doesn't mean you have safety problems."

Under the commission's quarterly reporting system, companies that see

their performance drop in an area are more inclined to remedy the situation, Lochbaum said.

"No owner wants that flag to be constantly waved," Lochbaum said.

Residents who live near Peach Bottom should not be overly concerned with the plant's white score, he said.

As far as Three Mile Island is concerned, Lochbaum said, green is a good sign. Exelon thinks so, too.

Overall, Exelon is pleased that both Three Mile Island and Peach Bottom received high marks from the commission, DeSantis said. The company's goal, though, is to have both plants completely in the green, he said. ✖



Chernobyl Wheat Has Higher Than Expected Mutations

from an October 4, 2000, Reuters article

Fourteen years after the Chernobyl nuclear disaster, wheat grown in Ukraine near the nuclear power station is six times more likely to show mutations than crops grown in uncontaminated soil, scientists said Wednesday.

A report in Nature journal by Olga Kovalchuk of the Friedrich Miescher Institute at the Novartis Research Foundation in Switzerland, and colleagues, compared a wheat crop grown near Chernobyl with a genetically identical crop 19 miles away.

After one generation the Chernobyl crop showed a rate of mutation six times higher than the crop grown in the clean soil, the report said. The scientists said the mutation rate was not in keeping with the levels of radiation.

"We estimate that the wheat plants have been exposed to relatively low doses of chronic irradiation. Theoretically this low-level exposure should not cause such a large increase in the mutation rate," Kovalchuk and her colleagues said.

They concluded that the high mutation rate indicated that "chronic exposure to ionizing radiation has effects that are as yet unknown." Further research was needed to analyze the genetic effects of chronic radiation exposure, the scientists added. ✖

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accident at TMI was not an ENO because there were neither substantial radioactive releases off-site nor substantial property damage off-site. The commission said it based its finding on how Congress defined ENO in the Price-Anderson Act.

A declaration that the accident was an ENO "would have prevented the reactor owner [then GPU] from using certain legal defenses against citizens seeking to recover damages as a result of the accident," Public Citizen said. Last week James Riccio, the group's senior analyst, charged that NRC would never take that long to respond to a petition from the nuclear power industry. "This as an example of how NRC treats the public as second-class citizens," he said. Riccio added he intends to continue carrying the ENO banner and that he was waiting to see if the NRC Office of Inspector General had found any other cases within the agency. According to Riccio, the IG is looking into whether the commission treats the industry any differently than it treats the public.

It was clear, however, by comments on commission notation vote sheets in August, in which commissioners voted to deny the petition on the ENO issue, that commissioners were distressed by the delay. Commissioner Nils Diaz called it "unacceptable." Commissioner Edward McGaffigan said it was "embarrassing," and Commissioner Greta Dicus concurred. Commissioner Jeffrey Merrifield questioned if there were other old petitions still

lingering at the agency. Comments attached to Chairman Richard Merserve's vote sheet consisted of his edits of the notice that would be published in the Federal Register Oct. 17 announcing the withdrawal of the proposed rule and denial of the petition.

According to NRC's Harry Tovmassian, the last person to work on the ENO petition, there is an even older petition still on the books. That one deals with a recommendation to add certain radionuclides to NRC Table S-3 in 10 CFR 51.20. The table contains estimates of the environmental impacts of radionuclides associated with the front- and back-end of the fuel cycle. Though NRC's 1980 annual report said the NUS Corp. had been pushing the agency to update the table, the NRC had concluded by then that even a limited update was not justified because radon was the only issue related to the table that was being raised in reactor licensing proceedings.

On the issue of ENO criteria, early on NRC staff members working on the petition also were involved in the modification of 10 CFR Part 20, which governs radiological releases. The Part 20 work received priority, with the agency thinking that work done there might apply to the ENO petition, Landau said.

Tovmassian said he was assigned to the ENO issue around 1995 or 1996, about the same time a proposed rule on ENO determinations was being considered. "I was looking at it from the standpoint of

whether the proposed rule should be finalized or terminated," he said. Tovmassian said he had to familiarize himself with the proposed rule and with the requirements set forth by Congress. At the same time, he also was working on some high-ranking issues at the agency, including NRC certification of advanced reactor designs and safeguards.

"The [ENO] project was never forgotten about; it wasn't prioritized very highly," he said. Tovmassian added it never received a zero priority. The commission sets staff's project priorities, directing where agency resources should focus.

According to several NRC officials, neither Public Citizen nor Critical Mass ever questioned the agency about why it was taking so long to act on their petition. "No one was prodding them," Landau said of NRC staff working on the petition.

According to Tovmassian, NRC's Office of Nuclear Reactor Regulation now is looking at the rulemaking process and at how long petitions stay on the books. Only a handful of petitions are still active at the agency, he said. The petition regarding modifications to Table S-3 is the oldest, he said. The rest are no more than a few years old, and several of them are approaching closure.

Landau said a staff paper, Secy 00-160, explaining the delay is expected to be released soon. ✕

Nuclear Plant Dealings -- Completed, under Way, and in Negotiations

from a December 2000, Nuclear News article

The following listing describes -- as of November 15 -- the status of past and projected nuclear power plant sales in the United States, mergers, license renewal approval, and also some utility name changes.

- * Carolina Power & Light Company and Florida Progress Corporation: Planned merger would join the Crystal River-3 nuclear plant (operated by Florida Power Corporation, a subsidiary of Florida Progress Corp.) with the four nuclear plants of CP&L: Brunswick-1 and -2, Robinson-2, and Shearon Harris.
- * Calvert Cliffs: The first nuclear power plant in the United States to receive approval for a 20-year license renewal. Approval was issued by the Nuclear Regulatory Commission on March 23, 2000.
- * Clinton: Purchased by AmerGen Energy Company from Illinois Power Company for \$20 million; sale closed in December 1999.
- * Columbia: New name of Energy Northwest's WNP-2 nuclear power plant.
- * Consolidated Edison, Inc.: Acquiring Northeast Utilities in a merger that will create a company known as New CEI.
- * Energy Northwest: New name of Washington Public Power Supply System.
- * Entergy Corporation and FPL Group, Inc.: Planned merger expected to close by November 2001. The merger would join the St. Lucie-1 and -2 and Turkey Point-3 and -4 nuclear plants (operated by Florida Power and Light Company, a subsidiary of FPL Group) with the six nuclear plants of Energy: Arkansas Nuclear One-1 and -2, Grand Gulf, River Bend, Waterford-3, and Pilgrim. In addition, Entergy is purchasing FitzPatrick and Indian Point-3 for \$967 million from the New York Power Authority.
- * Exelon Corporation: New company formed by merger of PECO Energy Company and Unicom Corporation.
- * Exelon Generation Company: Newly formed subsidiary of Exelon Corporation (see above item), which will be the holder of the operating licenses of Commonwealth Edison and PECO Energy Company nuclear power plants. ComEd, a subsidiary of Unicom Corporation, and PECO will remain as transmission and delivery companies. The 13 ComEd units moving under control of Exelon Generation Co. are all located in Illinois. They are Braidwood-1 and -2, in Braidwood; Byron-1 and -2, in Byron; Dresden-1 (permanently shut down), -2, and -3, in Morris; LaSalle-1 and -2, in Seneca; Quad Cities-1 and -2, in Cordova; and the permanently shut down Zion-1 and -2, in Zion. The PECO units affected are Peach Bottom-1 (permanently shut down), -2, and -3, in Delta, Pa., and Limerick-1 and -2, in Pottstown, Pa. Also affected are Salem-1 and -2, in Salem, N.J., which are partially owned by PECO but operated by Public Service Electric & Gas Company.
- * Exelon Nuclear: Subsidiary of Exelon Corporation that will be operator of Exelon's nuclear power plants.
- * FirstEnergy Corp. and GPU, Inc.: Planned merger of the two companies expected to be finalized by August 2001.
- * FitzPatrick and Indian Point-3: Being sold for \$967 million to Entergy Corporation by the New York Power Authority. The sale is expected to close by the end of 2000.
- * Indian Point-2: Offered for sale by Consolidated Edison Company of New York.
- * Millstone-1 (permanently shut down), -2, and -3: Being sold for \$1.3 billion to Dominion Resources, Inc. by Northeast Utilities. The sale is expected to close by April 2001.
- * Niagara Mohawk Power Corporation: Operator of

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the two Nine Mile Point nuclear power plants is merging with National Grid, a United Kingdom company. The merger is conditioned on Niagara Mohawk's sale of its nuclear assets (see Nine Mile Point item below).

* Nine Mile Point-1 and majority share of Nine Mile Point-2: To be sold at auction.

* Nuclear Management Company (NMC): Operator of the following nuclear power plants (following NRC approval in May): Alliant Energy Corp.'s Duane Arnold, in Iowa; Northern States Power Co.'s Monticello and Prairie Island-1 and -2, in Minnesota; Wisconsin Electric Power Co.'s Point Beach-1 and -2, in Wisconsin; and Wisconsin Public Service Corp.'s Kewaunee, in Wisconsin.

* Oconee: The second nuclear power plant in the United States to receive approval for a 20-year license renewal. Approval was issued by the Nuclear Regulatory Commission on May 23, 2000.

* Oyster Creek: Purchased by AmerGen Energy Company from GPU Inc. for \$10 million; sale closed in August 2000. The site has three reactors.

* Perry, Beaver Valley-1 and -2: Operating licenses transferred from Duquesne Light Company to FirstEnergy Nuclear Operating Company in December 1999.

* Pilgrim: Purchased by Entergy Nuclear from Boston Edison Company for \$81 million on July 13, 1999.

* PPL Corporation: New name of PP&L Resources. Its newly named subsidiary, PPL Susquehanna, LLC, operates the two-unit Susquehanna nuclear power plant.

* Seabrook: Expected to be placed on auction in 2001.

* Three Mile Island-1: Purchased by AmerGen Energy Company from GPU Inc. for \$100 million; sale closed in December 1999.

* Vermont Yankee: AmerGen Energy Company has a purchase agreement with Vermont Yankee Nuclear Power Corporation for an initially agreed upon price of \$23.5 million sale pending.

* Xcel Energy: Company formed by the merger of Northern States Power Company, operator of the Monticello and Prairie Island nuclear power plants, in Minnesota, and Denver-based New Century Energies.

Radioactive Soil from Nuclear Plants May be Sold to Homes, Farms

from an October 19, 2000, Environment News Service article

A controversial plan that would allow nuclear power plant operators to market their radiologically contaminated soils to construction companies, farmers, golf courses and other commercial entities is moving closer to reality.

After a 14 month literature search, the U.S. Nuclear Regulatory Commission (NRC) has selected 56 documents with which to define "realistic reuse scenarios" for the many tons of contaminated soils currently piled up at nation's nu-

clear power plants.

According to the NRC, the nuclear power industry's stockpile of low level contaminated soils could be safely used for a number of private and public endeavors, such as home landscaping projects, athletic fields, and playgrounds.

The 56 documents selected in the literature search, which were culled from a collection of some two million scientific articles, academic publications and industry reports,

will be used to characterize the impacts that the recycled contaminated soils would have on public health and the environment.

Specifically, the NRC hopes to use the documents to analyze the "exposure pathways" that will result from each soil reuse scenario. For example, the NRC will use the documents to analyze the exposure pathways in a "suburban scenario," where recycled nuclear power plant soils are used as backfill around a

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A Bush Bounce for Nuclear Power

from an October 7, 2000, The National Journal article

In late September, George W. Bush had some good news and some bad news for the nuclear power industry. In his high-profile national energy blueprint, Republican presidential candidate Bush gave nuclear power a much needed vote of confidence. Bush stated that nuclear power will play an essential role in the nation's energy future. He also promised \$1 billion over 10 years to streamline government regulations that impede the use of nuclear power. Democrat Al Gore, meanwhile, never mentioned nuclear in his energy plan.

On the downside, however, Bush joined Gore in opposing construction of a temporary nuclear-waste storage site at Nevada's Yucca Mountain. [Ed note: But see [Bush Team Favors Nuclear Dump in Nevada](#), page 8] Utility industry officials have urged the Energy Department to build a temporary site to store the 40,000 metric tons of radioactive waste that has accumulated at 70 commercial nuclear power plant sites across the nation. The federal government is building a permanent underground repository inside the mountain, but it won't be ready until at least 2010.

Bush came out against the temporary waste facility after election polls showed him trailing Gore among Nevada voters, who widely oppose playing host to any nuclear dump.

But Bush's mixed messages don't

bother Joe Colvin, the president of the Nuclear Energy Institute, an industry trade association. Election-year rhetoric aside, he contends, the next President will have to embrace nuclear power. "The Energy Department says we're going to need 200 to 300 gigawatts of new electric generation in the next 15 or so years," Colvin said. "The next President is going to have to look at what's best for the U.S., and non-polluting nuclear is going to have to be part" of the energy mix.

Colvin and other nuclear industry executives argue that nuclear power is entering a new era. The industry's 103 nuclear power plants, which now produce 20 percent of the nation's electricity, are operating at higher rates of efficiency than ever before, they emphasize. Also, the Nuclear Regulatory Commission is likely to extend the operating licenses for many of those plants, which are scheduled to close during the next two decades. The commission so far has renewed the licenses for five plants and is reviewing the applications of more than 20 others.

At the same time, the deregulation of electricity markets and the rising price of natural gas has boosted the market value of nuclear power plants, according to a report last month by Cambridge Energy Research Associates and Arthur Andersen. Nuclear power will also get a boost, Colvin contended, as utilities struggle to find easy ways to comply with the strict air pollution

reduction targets that the Clinton Administration has imposed and as the federal government seeks to curb U.S. emissions of the gases that cause global warming. "The new Administration is going to have to come to grips with some of these bigger-picture issues," he said.

The economic vitality of the nuclear industry has improved so dramatically that for the first time since the Three Mile Island nuclear accident took place near Harrisburg, Pa., in 1979, some executives are talking about constructing new nuclear power plants in the United States. "I think a nuclear plant will be built in the U.S.," predicts Jerry Yelverton, the president and CEO of Entergy Corp.'s nuclear energy divisions. "I don't know if it'll be in five years or 10 years. But if the U.S. sees a hot summer next year like the South did, and electric prices go real high, nuclear could be a much more acceptable option."

The Nuclear Energy Institute has begun a series of informal meetings with electric company executives, construction companies, and other energy industry heavyweights to draw up a business plan for new plant construction. Executives from Commonwealth Edison Co., Duke Energy, Entergy Corp., PECO Energy Co., and Southern Co., all of which now own and operate nuclear power plants, have participated in those discussions. Colvin said the group has not decided where, when,

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or what kind of plants should be built. Industry officials note that they're most likely to site a new plant on the campus of an existing nuclear facility, where local residents are less likely to oppose construction. These officials also are discussing the prospects for building 10 or 20 plants, with the hope of saving millions of dollars by standardizing the plant design plans.

Despite the industry's optimism, nuclear power continues to face stiff opposition from environmental activists, who argue that nuclear power is dangerous and produces tons of radioactive waste that will continue to be dangerous for generations. These critics disagree with the industry's contentions that nuclear power is the solution to the nation's pollution problems.

"Switching from coal to nuclear power to solve our global-warming problem would be like giving up smoking and taking up crack," said Daniel F. Becker, the director of global-warming and energy programs at the Sierra Club.

Nuclear industry officials concede that a major hurdle to gaining public

support and Wall Street financing continues to be nuclear-waste disposal. That barrier could fall within the next year. The Energy Department has until the end of the year to decide whether the Yucca Mountain underground facility can safely hold the nation's commercial nuclear waste. If the department gives the site a green light, the project will go to the next President, who will have until July 2001 to make a final decision. Environmentalists and Nevada state officials, however, argue that the department's safety review of the Yucca Mountain facility has been seriously flawed, and they vow to fight any decision to allow waste into the repository.

Meanwhile, several utilities are pursuing lawsuits against the Energy Department for its failure to remove nuclear waste from the power plant sites by the Jan. 31, 1998, congressional deadline. So far, the courts have ruled in the utilities' favor. In December 1998, the Supreme Court let stand a lower-court ruling that the government had an unconditional obligation to accept spent nuclear fuel by the 1998 deadline. In August, the U.S. Court of Appeals for the Federal Circuit ruled that owners of four nuclear power plants

have the right to sue the Energy Department to recover damages.

The companies are seeking a total of \$1.3 billion in damages for building and running extra nuclear-waste storage facilities and for other expenses. They argue that the federal government's total liability could wind up being several times higher if recent court rulings are applied to other nuclear power plants. Energy Department officials contend, however, that the utilities' damage estimates are inflated.

Still, nuclear industry officials admit that nuclear power must also overcome the most dangerous threat—the perception gap. Most members of Congress support nuclear power, Colvin said, but lawmakers fear that their constituents are less enthusiastic. In a recent campaign swing in Cleveland, Bush echoed that concern, according to *The New York Times*. Asked by an employee at a local technology company if he supported nuclear power, Bush answered that he did not think Americans were "ready for a nuclear initiative." ✖

Bush Team Favors Nuclear Dump in Nevada

from a January 9, 2001, Las Vegas Sun article

A number of nuclear-power industry leaders who back the plan to bury the nation's high-level radioactive waste in Nevada are among the advisers President-elect George W. Bush assembled to counsel him on energy issues.

Among those bending Bush's ear: Joe Colvin, president and chief executive officer of the Nuclear Energy Institute (NEI), the industry's leading advocacy and lobby group; and J. Bennett Johnston, the former Louisiana senator who authored the

1987 "Screw Nevada" bill that designated Nevada as the only state to be considered as a nuclear dumping ground.

Notably missing from the 48-

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member advisory team are environmentalists or anyone who opposes the plan to bury waste in Nevada, several activists said. "To include NEI, especially, without any attempt at all at balancing that with anyone who represents an environmental perspective, is telling, it's disappointing," said Lisa Gue, policy analyst with Washington-based Public Citizen.

Bush's "Energy Transition Advisory Team" is a collection of leaders from mostly corporate backgrounds including energy company executives and lobbyists. "The list reads like a who's who of the nuclear power industry," Rep. Shelley Berkley, D-Nev., said. Of the 48 members, at least 14 have strong ties to the nuclear power industry. Among them: Tom Kuhn, president of Edison Electric Institute, a lobbying arm of the electric power industry and active Yucca Mountain project advocate; and longtime Bush friend and fundraiser, TXU chairman Erle Nye. TXU operates two nuclear reactors in Texas.

Also on the team are Johnston aide Alex Flint; James Langdon, Jr. and Gregg Renkes -- leading lobbyists whose firms work for nuclear power companies; Steve Wakefield, executive with Southern Company and Tom Farrell, an executive with Dominion Energy -- both companies operate nuclear plants; and Judy Walsh and Pat Wood, both members of the Texas Public Utilities Commission, which oversees the nuclear power industry in Texas. "It appears to me we have the industry

directing policy," Sen. Harry Reid, D-Nev., said.

Of the 48 members, 34 gave donations to the Republican Party, in most cases through their companies' political action committees; 18 gave personal donations to Bush, according to the Center for Responsive Politics, a campaign money watchdog group. Four of Bush's energy advisory team members were so-called Pioneers -- Bush friends who raised at least \$100,000 for his campaign: Occidental Chemical president and CEO J. Roger Hirl; Enron Corp. executive Kenneth Lay; Langdon and Nye.

While no anti-dump activists sit on Bush's energy team, Rep. Jim Gibbons, R-Nev., has said Bush promised an "open-door" policy for Nevada Republicans to voice objections to the Yucca Mountain plan. "After looking at the list, it's basically the same situation that it always has been in that obviously there are some members on there who have voiced strong support for Yucca Mountain," Gibbons spokeswoman Amy Spanbauer said. "It's always been the same battle with 49 states against one." Sen. John Ensign, R-Nev., declined to comment, spokeswoman Traci Scott said.

Las Vegas Troy Wade is the only Nevadan on the team, but the former Nevada Test Site miner and a defense official for the Energy Department under President Ronald Reagan is a nuclear weapons and security expert. He is not privy to Yucca Mountain policy discussions, he said Monday.

The entire energy advisory team has not yet met as a group, but it may soon, Wade said. Members of the advisory team act as an information resource for Bush's three-member "Energy Policy Coordination Group," which works out of the Bush-Cheney transition office in Washington. That group is: Andrew Lundquist, chief of staff for the Senate Energy Committee, a top aide to Energy Committee chairman Sen. Frank Murkowski, R-Alaska, the leading Yucca supporter in the Senate; Paul Longworth, staffer for the Senate Armed Services Committee; Joseph Kelliher, lawyer who specializes in energy issues for the international 750-lawyer firm of LeBoeuf, Lamb, Green and MacRae. Their job is to brief Bush's Energy Secretary pick, former Sen. Spencer Abraham, R-Mich., as he prepares for Senate confirmation hearings. (As a senator, Abraham voted for legislation aimed at establishing the waste site at Yucca). They also will turn Bush's campaign commitments into detailed presidential proposals, according to a press released from the Bush-Cheney transition office. ✖

(Continued from "Soil," page 6)
domestic residence.

The exposure pathways resulting from any given soil reuse scenario would vary according to the activities of the people living in the area, the NRC notes. For example, if people within a suburban reuse scenario engaged in gardening activities, the exposure pathways could include inhalation, ingestion of vegetables or fruits, inadvertent ingestion of soil, and external exposure, the NRC points out.

In order to evaluate the potential overall impact of reusing the power plant soils, the NRC will analyze several scenarios to determine a "critical group." The NRC defines a critical group as a group of individuals reasonably expected to receive the greatest exposure to residual radioactivity for any applicable set of circumstances.

The dose of radiation received by the average member of the critical group will then be used to determine whether limitations are required so that soil reuse will be controlled in a way that is protective of public health and the environment, according to the NRC.

The 56 documents that were culled from more than two million during the literature search will provide valuable information in setting those parameters, the NRC maintains.

A key element of the project was to have a team of outside experts review the results of the literature search, the NRC emphasized. Ac-

cording to the NRC, the role of the outside experts was to alert the agency to concepts or information overlooked in the literature search.

One of the independent reviewers, Carlo Long Casler, did make such an alert to the NRC. Casler, who is affiliated with the Arid Lands Information Center at the University of Arizona, asked the NRC to review Russian documents pertaining to the accident at the Chernobyl nuclear power plant in 1986. Casler also suggested that the NRC analyze Japanese documents pertaining to the long term health effects of the atomic bombs that were dropped on Hiroshima and Nagasaki some 55 years ago.

The NRC, in a report released earlier this summer, concluded that the environmental and health impacts of those cases were not relevant to the question of reusing radiologically contaminated soil from U.S. nuclear power plants.

"The unintentional exposure hazard from the high-level radiation that occurred in the cases Ms. Casler mentioned is significantly different from the anticipated exposure derived from soils intentionally released from NRC-regulated locations," the NRC stated in its report.

That's not good enough for Diane D'Arrigo of Nuclear Information and Resource Service, a watchdog group based in Washington, D.C. D'Arrigo, like many environmentalists, takes issue with the NRC's plan to release low level radioactive materials from regulatory standards.

"The goal should be to isolate radioactive materials and prevent exposures, not to deliberately expose people by allowing radioactive materials into regular daily commerce, D'Arrigo said. "If it's contaminated from nuclear power and the fuel chain, then it should be treated as a waste and isolated."

The NRC has already set radiation benchmarks that nuclear power plants must meet before they can be decommissioned. Now, the NRC is trying to set standards that would allow individual aspects of the plants to be released from regulatory control prior to a shutdown. In addition to contaminated soils, these standards would apply to metals, concrete and equipment used at nuclear power plants.

Like many environmentalists, D'Arrigo is not convinced that the NRC's standards will be protective. "When the whole motivation behind it is to allow radioactive materials to be released from regulatory control, we can't have a lot of hope that these are really going to be objective or comprehensive or realistic," she said.

The document can be viewed on line at:

<http://www.nrc.gov/NRC/NUREGS/SR1725/index.html> ✱

Leak Forces Shutdown of Beaver Valley Reactor

from a December 12, 2000, *The Record* (Bergen County, NJ) article

A leak in a coolant system at a Pittsburgh-area nuclear power plant forced the shutdown of one of the plant's reactors and prompted a low-level emergency Monday. Authorities said the leak at the Beaver Valley Power Station was contained within the building and there was no indication of a threat to public health or safety.

Reports from the plant, which is about 25 miles west of Pittsburgh, indicated there had not been a radioactive release from the building, said David Smith, director of the Pennsylvania Emergency Management Agency.

The emergency was declared at the plant's No. 2 reactor unit at 5:36 a.m. The leak was called an "unusual event," the least serious of four classifications of power plant emergencies. At one point, radioactive water was spilling onto the floor of the containment building at the rate of 12 to 20 gallons a minute, said Neil Sheehan, federal Nuclear Regulatory Commission spokesman. No workers were exposed.

Workers in protective suits went into the building to check the leak but were unable to reach the valve, Sheehan said. They were expected

to try again after the reactor had been fully shut down Monday afternoon, he said. The leak appeared to be coming from a line used to drain water from the reactor's coolant system, said Sheehan.

The other three classifications of nuclear plant emergencies are an alert, a site-area emergency, and a general emergency. Only one general emergency has ever been declared at a U.S. nuclear plant, after the March 1979 accident at Three Mile Island near Harrisburg. ✖

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RETURN TO: TMIA, 315 Peffer Street, Harrisburg, PA 17102

The official registration and financial information for Three Mile Island Alert may be obtained from the PA Department of State by calling toll free, within PA, 1-800-732-0999. Registration does not imply endorsement.

Disaster Of The Day: Lost Nuclear Waste

from a January 8, 2001, *Forbes.com* article

It's not Chernobyl, but neighbors of the Millstone nuclear plant in Waterford, Conn., can't be too happy. Two fuel rods containing uranium dioxide, a byproduct of nuclear power, have been missing at the Waterford, Conn., nuclear reactor for twenty years. What's worse, plant officials didn't actually notice that the waste was unaccounted for until November 2000.

"We've looked through our records to see if anything like this has ever happened before," says a spokeswoman for the U.S. Nuclear Regulatory Commission (NRC) Diane

Screnci, "and it hasn't."

According to plant officials, the fuel rods were removed from the reactor in the early '70s and placed in what's called a cooling pool, where they generally stay for anywhere between six years and 20 years.

"The rods were on the map we did of the pool in May 1980, but they came up missing in September 1980," says a Millstone spokesperson. No one at the reactor noticed that the rods were unaccounted for until this fall, and since then a search has been underway.

"We don't believe [the lost rods] will have any impact on public health and safety," says Screnci, "but obviously we're concerned about the missing rods."

Nevertheless, after being out of the reactor for nearly 30 years, the rods probably don't hold much radiation, if any. "As long as you don't break them apart with your hands and eat them, you're probably okay," says Ted Rockwell, a founder of the Radiation Science and Health, a non-profit organization. ✕

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Three Mile Island Alert

The Newsletter of Three Mile Island Alert

August 2001

Facing Public Opposition, Exelon Delays Attempt to Move Emergency Facility

from a June 27, 2001, York Daily Record article

Exelon Nuclear Corp. will look to improve communications with state and local officials before it moves ahead with a plan to relocate Three Mile Island's emergency operations facility from Dauphin County to Coatesville in Chester County.

The company has decided to delay its June application to the Nuclear Regulatory Commission, pending meetings with officials from TMI's five surrounding counties, including York and Dauphin counties.

"Our plan is to meet these people to explain details and answer questions," said David Carl, spokesman for AmerGen Energy Co. "We will create a clear picture of the proposed changes going forward."

AmerGen Energy Co., which co-owns and operates TMI Unit 1, is co-owned and operated by Exelon

Nuclear Corp.

Exelon Nuclear Corp. owns and operates two other Pennsylvania plants, including three units at York County's Peach Bottom Atomic Power Station and two at Limerick Generating Station in Montgomery County.

The plan that was to be submitted to the NRC would include a standardized emergency response plan for the three plants.

That would involve relocating TMI's emergency operating facility roughly 60 miles from Susquehanna Township in Dauphin County to Coatesville.

Three Mile Island is now 12 miles from the Susquehanna Township emergency operating facility.

(Continued on bottom of page 4)

Peach Bottom Seeks 20 Year Extension

from a July 3, 2001, Lancaster New Era (Lancaster, PA.) article

The owners of the Peach Bottom nuclear plant along the Susquehanna River are seeking permission to extend the life of the plant by 20 years.

The York County plant's two units were scheduled to be closed in 2013 and 2014.

But on Monday, Exelon Nuclear applied to the U.S. Nuclear Regulatory Commission to extend the operating licenses to 2033 and 2034.

An Exelon official said today that the Three Mile Island nuclear plant will be studied to see if a similar license extension would be sought. Currently, TMI's license expires in 2014.

The cost of getting the renewed licenses at Peach Bottom -- if granted

(Continued on page 6, column 3)

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Three Mile Island Alert

Three Mile Island Alert (TMIA) is a non-profit citizens' organization dedicated to the promotion of safe-energy alternatives to nuclear power, especially to the Three Mile Island nuclear plant.

Formed in 1977 after the construction and licensing of TMI Unit-1 and the construction of the infamous Unit-2, TMIA is the largest and oldest safe-energy group in central Pennsylvania.

TMIA members interested in specific aspects of nuclear power are encouraged to join one of TMIA's committees. These committees include:

- Radiation Monitoring
- Low-level Radioactive Waste
- Health Effects of TMI
- Nuclear Plant Security

TMIA Planning Council

Eric Epstein, Chair
Bill Cologie, Vice-Chair
Betsy Robinson, Treasurer
Kay Pickering, Secretary
Mary Osborn
Scott Portzline

Publisher - Kay Pickering
Editor - David Raeker-Jordan

Three Mile Island Alert
315 Pepper Street
Harrisburg, PA 17102
Phone: (717) 233-7897
FAX: (717) 233-3261

On the Internet at:

WWW: <http://www.tmia.com>
&
Email: tmialert@home.com

Glossary of Terms

AmerGen - corporation comprised of British Energy and PECO Energy. This corporate entity owns and operates TMI-1 and Oyster Creek, and is contracted by GPU Nuclear to monitor TMI-2 during PDMS

B&W - Babcock & Wilcox, the company that supplied the TMI 1 & 2 reactors. B&W is now known as Framatome

BRP refers to the Bureau of Radiation Protection, Pennsylvania Department of Environmental Protection

BWR - Boiling Water Reactor

CPM refers to "counts per minute" or the number of radioactive disintegrations per minute

DEP - Pennsylvania Department of Environmental Protection

EPA - United States Environmental Protection Agency

Exelon - Corporate entity created by the merger of PECO Energy and Commonwealth Edison. This company is licensed to operate nuclear generating stations in Illinois and Pennsylvania

FirstEnergy - Electric company based in Ohio. FE and General Public Utilities have announced plans to merge in 2001. If the merger is approved, the newly formed company would be licensed to operate nuclear power plants in Ohio and Pennsylvania. This company would be responsible for decommissioning Saxton and TMI-2.

General Public Utilities - General Public Utilities Nuclear sold TMI-1 and Oyster Creek to AmerGen in 1999.

GPUN maintains a POL at TMI-2. General Public Utilities, GPUN's parent, is planning to merge with FirstEnergy.

MOX - Reactor fuel in which plutonium-239 is mixed with natural or re-processed uranium

MWe - Megawatts

NRC - United States Nuclear Regulatory Commission

NCV - Non-Cited Violation issued by the NRC in place of a more severe penalty (see Risk-Informed Approach)

pCi/m3 refers to picoCurries of radiation per cubic meter of air

PDMS - post-defueled monitored storage, which is the state in which TMI-2 is currently being kept

POL - Possession Only License, issued by the NRC for a non-operating nuclear reactor

PUC - Pennsylvania Public Utility Commission

PWR - Pressurized Water Reactor

Revised Reactor Oversight Process (ROP) - see Risk-Informed Approach.

Risk-Informed Approach - The NRC's "revised" oversight program for nuclear generating stations. This new protocol was implemented on April 2, 2000, and was designed to "reduce unnecessary regulatory burden" on the nuclear industry. (see NCV).

New Requirements for Nuclear Waste Site in Nevada

from a June 6, 2001, Associated Press article

The Bush administration agreed to tougher health protection requirements for a proposed nuclear waste site in Nevada, ignoring pleas from the nuclear industry and Republican allies in Congress. The requirements announced by the Environmental Protection Agency on Wednesday would limit radiation exposure from the Yucca Mountain site to no more than 15 millirems a year for people 11 miles away, including no more than 4 millirems from groundwater.

A millirem is a measurement of the biological effects of radiation on human tissue. According to the EPA, the standard would mean a person living 11 miles from the waste site would absorb every year a little less radiation than a person would get from two roundtrip transcontinental airline flights. By comparison, background radiation exposes people to about 360 millirems of radiation annually. Three chest X-rays expose a person to about 18 millirem, the agency said.

The Nuclear Energy Institute responded with separate lawsuits in two federal courts challenging the EPA standard. The industry had sought less stringent standards, arguing that recommendations from the Nuclear Regulatory Commission of a 25 millirems overall limit and no groundwater standards would provide safety to people living near the site.

Energy Secretary Spencer Abraham, who has favored the NRC proposal,

said the EPA standards were "tough and challenging" and that "we believe we can meet the requirements."

The government's health standards for the Nevada site have been considered crucial in determining whether the federal underground storage facility at Yucca Mountain, 90 miles northwest of Las Vegas, can be built. The scientific review of the site has not been completed. Abraham is expected to make a recommendation to President Bush this year with a final decision by the president likely in early 2002. The plan is to keep 70,000 tons of used reactor fuel now at commercial power plants in canisters 600 feet below the surface.

Nevada officials say the federal government has failed to prove that the waste, which will stay highly radioactive for tens of thousands of years, would not contaminate an aquifer running through the area and surrounding countryside. The state also has protested transportation plans for thousands of shipments of waste, including some traveling near Las Vegas. The EPA standard is designed to limit public exposure to any contamination over the next 10,000 years.

"Under these standards, future generations will be securely protected," Christie Whitman, the EPA administrator, said in a statement. She said the limits were designed "to ensure that people living near this potential

repository will be protected now and for future generations." The nuclear industry moved quickly to challenge the standard, suing in U.S. District Court and the U.S. Court of Appeals for the District of Columbia Circuit.

"The nuclear industry is extremely disappointed," said Marvin Fertel, director of business operation at the NEI, the industry trade group. He said the added groundwater exposure limits "will cost taxpayers and electricity consumers billions of additional dollars to license and build the repository without making the facility any safer."

Some environmentalists and nuclear watchdog groups said the standards were inadequate.

"The EPA has create an exclusion zone to safe drinking water," said Arjun Makhijani, a nuclear physicist involved in the anti-nuclear movement. Makhijani said that people live within several miles of the site, but the groundwater tests will be taken 11 miles away.

Also, he and other critics said, the standard would apply for 10,000 years, while the maximum radiation exposure from decaying isotopes is projected to be many years beyond that. ¶

Activist Sues Abraham Over DOE-PECO Agreement

from an April 30, 2001, Nuclear Fuel article

An antinuclear activist this month took Energy Secretary Spencer Abraham to court, saying the spent fuel settlement agreement DOE signed with PECO Energy last year should have undergone a National Environmental Policy Act review.

Eric Epstein maintained in the complaint he filed April 19 in U.S. District Court for the Middle District of Pennsylvania that the agreement could have a far-reaching impact and that the public should have had a say. Epstein is the chairman of TMI Alert, the anti-nuclear group founded in 1977 around local opposition to the Three Mile Island nuclear plant in Londonderry Twp.

The DOE-PECO deal would allow

the utility to receive compensation from the Nuclear Waste Fund for eligible costs associated with the dry storage of Peach Bottom spent fuel. In exchange, the utility agreed to drop all existing and future claims against DOE related to the department's failure to begin disposing of utility spent fuel by the 1998 contract. The agreement amended the utility's original waste disposal contract with the department and changed the disposal date from 1998 to 2010, DOE's current projected date for the start of repository operations.

Epstein argued the agreement would delay the removal of the waste from Peach Bottom, essentially creating a de facto waste site,

and that an environmental impact statement (EIS) should have been done to identify and assess reasonable alternatives. The complaint asked that the court remand the matter so an EIS could be done.

The lawsuit also contends that the deal would allow PECO to sell its place in line at the department's repository for high-level nuclear waste at Yucca Mountain, Nevada.

Also named as a plaintiff in the suit was Herbert D. Watkins, the DOE contracting officer who approved the agreement. ¶

(Continued from "Facility," page 1)

If the NRC approves the application, the Coatesville facility would lend support, in the form of technical experts and engineers, for all three plants in the event of an emergency.

The Coatesville facility now provides support to Limerick Generating Station and Peach Bottom Atomic Power Station. Coatesville is 56 miles from Peach Bottom and 22 miles from Limerick in Montgomery County.

Carl said the Coatesville center is equipped with updated automated machinery and computers that

would be used to offer additional assistance to TMI in the event of an emergency.

Eric Epstein, chairman of Three Mile Island Alert in Harrisburg, said the consolidation of the emergency operating facilities is a mistake.

"Each plant should be required to have an emergency operating facility that is specific to each reactor and each community," he said. "It's an important issue."

In place of the facility, TMI will increase its emergency on-site staff of technical experts from 28 to 41 employees as part of the proposal, Carl said.

Paula Tezik, manager of Fairview Township, said the township is within a 10-mile radius of TMI.

Improved communication between Fairview Township and Exelon Nuclear Corp. should be a priority over the plans to move the facility, she said.

"The board of supervisors believe they should not move the emergency operating facility," Tezik said. "To move it would mean they are forgetting about us and the accident that happened. Nobody wants them to forget what happened." ¶

High Energy Costs Fuel Boom for Solar

from a May 27, 2001, The Daily News of Los Angeles article

Until the energy crisis hit this year, solar equipment installers relied heavily on maintenance work to survive because the elimination of government incentive programs for solar energy users in 1985 had decimated their business. But today, with dramatic increases in the price of electricity and natural gas and the return of government incentives, the fortunes of solar contractors and manufacturers are on the rise again.

Los Angeles area contractors and manufacturers say they are seeing whopping increases in business and, in some cases, are so overwhelmed with work they have had to turn jobs away. "My sales are up 40 percent. They would be up more if I could do more," said James Bjorseth of Granada Hills, who specializes in solar water- and pool-heating. "I am turning down jobs."

As a result of a rebate program launched in February by the Los Angeles Department of Water and Power, solar installations have become affordable to many Los Angeles residents. Despite being shielded from the energy crisis by its own power plants, Los Angeles is still aggressively pushing for solar energy, say DWP officials, because it reduces the load on its electric grid and pollution resulting from traditional power generation. Under the rebate program, homeowners who install solar-electric panels that convert sunlight into electricity receive a \$5-per-watt rebate.

For example, a homeowner who installs 2 kilowatts worth of solar panels, typically at a cost of \$15,000, receives a rebate of \$10,000. In addition, when the solar energy the equipment generates exceeds his needs, his meter runs backward, reducing his utility bill.

According to Angelina Galiteva, the

DWP's executive director of strategic planning, some 120 homes have taken advantage of the rebates and many more have made reservations for rebates totaling \$2.25 million, out of an \$8 million budget for rebates this year. Galiteva said the DWP's goal is to have solar panels on the rooftops of 100,000 homes by 2010. ¶

Court Blocks Plaintiffs from Offering New Evidence

from a May 10, 2001, Nucleonics Week article

A federal appeals court has ruled that plaintiffs seeking damages related to the 1979 Three Mile Island-2 accident cannot add new evidence to their cases against plant owner GPU Inc. and other defendants.

GPU hailed the decision as a victory. Company spokesman Ned Raynolds said the decision means it is unlikely the plaintiffs can press their claims in a class action suit and that they would have to move forward on an individual case basis, if at all.

"Now, more than two decades after the accident, is not the time to try to find support for allegations that the accident caused any injury to the public," said A.H. Wilcox, attorney for the defendants.

However, Eric Epstein, chairman of the activist group TMI Alert, said the court decision is a minor one and won't affect the plaintiffs' case against GPU and the other defendants. The decision simply prevents the plaintiffs from introducing some new theories on causes of radiogenic cancer, he

said, which is "unfortunate" but won't stop plaintiffs from pursuing their claims.

The U.S. Court of Appeals for the Third Circuit on April 30 affirmed a determination by District Court Judge Sylvia Rambo that attorneys for the approximately 2,100 plaintiffs can only advance causation theories based on evidence of records existing at the close of discovery.

In 1996, the District Court heard 10 test cases chosen from among the plaintiffs' cases and dismissed them for lack of evidence. It then proceeded to dismiss the remaining plaintiffs' cases, which were using many of the same witnesses and much of the evidentiary material. But an appeals court ruled in 1999 that due process had been denied the remaining cases, and reinstated them. Rambo's ruling said the cases had to proceed from the point at which they were when they were incorrectly dismissed, and plaintiffs could not go back and start over.

¶

Nuclear Laundry Eyes Pennsylvania

from a May 18, 2001, Central Penn Business Journal article

Eastern Technologies, Inc. is scouring Pennsylvania in search of a place to build a commercial laundry that will wash clothes worn by workers in nuclear power plants. Eastern has one so-called "nuclear laundry" in Ashford, Ala., where it is based.

The company wants an operation in Pennsylvania because of the state's central location and convenient highways, said Mark Fellows, Eastern's vice president.

Eastern sought to buy property in Highspire, south of Harrisburg, Fellows said. But the company's bid was turned down by the landowner, the Susquehanna Area Regional Airport Authority. Fellows would not say what other sites Eastern is considering. He also would not disclose the company's revenues.

Nuclear laundries are licensed by the federal Nuclear Regulatory Commission. Since dirt on the clothing may be contaminated, the laundries operate under rules designed to ensure no radiation escapes, whether through stream or waste water. Otherwise, the laundries generally use the same soaps and processes as normal commercial cleaners.

Geography determined Eastern's interest in Pennsylvania, Fellows said. The state is centrally located and has easy access to the rest of the Northeast, home to many of the nation's nuclear plants, including five nuclear plants in Pennsylvania. But the state's Keystone Opportunity Zones also lured the company,

Fellows said. The zones are designated areas where new or expanding businesses can locate and win an exemption from state and local taxes. The site Eastern wanted is a KOZ.

Clifford Jones, chairman of the Susquehanna Area Regional Airport Authority, confirmed that Eastern was rejected as a buyer for the Highspire site. "It's the last good site, and it ought to go to someone with steady employment," said Jones. The airport authority manages Harrisburg International Airport.

The work force at the laundry would vary seasonally and range from between 45 and 120 employees, Fellows acknowledged. But he believed the authority's rejection stemmed, in part, from fear.

Nuclear laundries are often controversial, said Eric Epstein, a local activist who monitors radiation from Three Mile Island. "Most people," he said, "are uncomfortable having any kind of nuclear operation within close proximity of their home." Monitors at TMI can tell when radioactive waste is being taken away. Clothes sent out for cleaning are likely to have radiation as well, Epstein said.

Eastern is no stranger to controversy. Eastern's Alabama laundry was initially objected to by neighbors, with the ensuing battle ending up in court. Eastern won. ¶

(Continued from "Extension," page 1)

by the NRC -- would be about \$18 million, according to Exelon officials.

But that's still much cheaper than building a new natural gas or coal-fired plant, officials said.

Exelon officials said a special review team looked at more than 100 separate systems and 40,000 plant components "and determined that Peach Bottom has solid programs in place to maintain continued safe and reliable operation and maintenance of the plant," a company spokesman said in a press release.

"A 20-year extension in Peach Bottom's operating license is an investment in 2,200 megawatts of clean, emission-free electricity and helps to ensure an economical and reliable source of power for southeastern Pennsylvania for years to come," said Oliver D. Kingsley, president and chief nuclear officer of Exelon Nuclear.

In 2000, the plant generated the most electricity in its 25-year history. Each of the plant's two 1,100-megawatt boiling water reactors can produce enough electricity for more than 600,000 homes.

The plant has 700 full-time employees and 200 long-term contractors.

The NRC is expected to take about two years to review the license renewal application. ¶

NRC Alters Oversight Rather Than Fix Security Problems

by Scott Portzline, TMIA

Because 50% of US nuclear plants fail "force on force" security testing, many plants would have received a RED rating for its security performance indicator. The number of mock attackers for these tests is embarrassingly small and will not be disclosed here. Rather than fix the problem, the NRC originally tried to do away with these tests.

Since that plan drew strong opposition from watchdogs and Congress, the NRC reinstated the testing. Plants continue failing at the same rate. (Originally, we were led to believe

that a RED rating of any performance indicator would require a shutdown until corrected. But, the NRC actually can allow multiple RED safety indicators by one plant and permit continued operating. This is one of several reasons the new color-coded regulatory system does not adequately define safety.)

Now, the NRC has decided to just accept these failed tests and designate nuclear plants as secure by giving ratings higher than RED. They justify this course by claiming that there is no increased risk because there is no rea-

son to believe that a terrorist(s) would target a nuclear plant. This comes just one day after learning terrorist bin Laden tried to purchase uranium. In 1993, bin Laden's associates threatened to attack "nuclear targets" with "150 suicide soldiers" and trained 30 miles from Three Mile Island. (I will provide more details on the TMIA web page soon: <http://www.tmia.com/sabter.html>)

Here is the NRC's statement from yesterday: <http://www.nrc.gov/OPA/gmo/nrarcv/01-013.html> ¶

No. 01-013 February 8, 2001

The Commission has approved interim guidance to be used by the staff of the Nuclear Regulatory Commission in assessing the results of security exercises at nuclear power plants.

NRC regulations ensure that commercial nuclear power plants are among the most secure industrial facilities in the United States with a capable and well-trained security force to serve as a deterrent to any potential adversary. The guidance will not change this requirement. As part of NRC's inspection effort to verify compliance with these regulations, mock terrorists engage in a force-on-force exercise which tests the security of nuclear power plants. But some problems have arisen in assessing the significance of security exercise findings under the agency's revised Reactor Oversight Process (ROP) since its initial implementation in April 2000. Under the ROP, a Significance Determination Process is used which incorporates risk-informed insights to assess the safety significance of inspection

findings. When applied to security exercises, the significance determination process over-estimated the significance of findings, leading to a higher level of NRC response than was warranted. The interim guidance approved by the Commission classifies findings from force-on-force exercises so that the level of significance more appropriately reflects the associated increase in risk to public health and safety.

Although the general nature of the threat nuclear power plants must protect themselves against is defined in NRC regulations, some of the provisions are difficult to interpret and the details and expectations have not always been communicated clearly and consistently by NRC to licensees participating in security exercises. As a result, some inconsistencies have existed. Progress has been made by NRC in addressing these issues. But, the Commission has directed the staff not to issue violations arising from force-on-force findings at this time. The Commission expects, however, that deficiencies identified during for-

ce-on-force exercises will be promptly addressed by the licensees' corrective action programs. In addition, licensees will remain subject to enforcement action if they fail to comply with their security plan commitments.

The staff will continue to work with stakeholders in an open forum to resolve remaining challenges involved in evaluating security plan exercises and clarifying and revising NRC regulations through the rulemaking process. The Commission continues to believe that a strong safeguards and security program is a central and important obligation of NRC licensees. During this interim period NRC licensees will be expected to continue to meet the regulatory requirements for the physical protection of nuclear power plants and to take corrective action for deficiencies identified during exercises. Typically, corrective actions are taken by licensees before NRC inspectors leave the facilities at the conclusion of a security exercise. ¶

Germany Joins a Growing Number of Countries Abandoning Nuclear Power

from a June 17, 2001, The Times Union (Albany, NY) op-ed

Just as President Bush has revived nuclear power as part of a national energy policy to increase supplies, Europe continues to show the way by abandoning this technology. Yes, Europe, the very continent that was supposed to be teaching the United States that nuclear power was safe, clean, and reliable.

But now Germany has become the third European country to say it wants no more nuclear plants, even though the country depends on 19 of them to generate electricity and has become accustomed to this form of generation. The phaseout of the existing plants will be gradual, with the final plant closed down by 2021. When completed, Germany will join with Italy and Austria in forgoing a technology that was once hailed as the power of choice for the future. It will turn instead to wind, solar and other forms of renewable energies, improvements to other power plants and conservation.

Given the pressure on all developed nations to reduce greenhouse gases, Germany's action, like that of Italy and Austria, is doubly significant. Nuclear power has been touted as one sure way to help ease global warming caused by burning fossil fuels. But the risks outweigh the advantages. There is still no way to safely dispose of nuclear waste -- a key concern that prompted Germany's decision. Although nuclear advocates insist that waste can be

reprocessed, and point to France as an example of a country with an admirable record in recycling, that has apparently failed to impress other European countries worried about the long-term consequences of accumulating radioactive waste that will remain hazardous for 200,000 years.

Even so, President Bush has proposed that American nuclear waste be reprocessed into weapons-grade material, a suggestion that brings with it the chance of theft and sabotage by terrorists. Many opponents of nuclear power rightly say that the risk is not worth taking.

As for other safety concerns, nuclear advocates insist that the record of America's 103 reactors should be proof that this technology does not pose the dangers that opponents fear. But that same argument was made before Three Mile Island. After that near disaster, the nuclear power industry had a huge credibility gap on safety issues. To a large degree, that gap exists today. Moreover, building more plants would only increase the chances that something would go wrong somewhere.

That leaves environmental benefits as the strongest case for expanding the nation's nuclear capacity. But even here, the record isn't quite what it appears to be. In truth, carbon dioxide is emitted at various

stages of the nuclear process, thereby diminishing the role of these plants in fighting global warming.

In Germany, the nuclear power industry is hoping that the shutdown order will be reversed once Chancellor Gerhard Schroeder leaves office. But proponents appear to be deceiving themselves. Mr. Schroeder isn't a renegade on this issue, nor is Germany. The trend is building across Europe, and for the better. ¶

PPL to Expand Susquehanna Generation Capacity

from an April 23, 2001, Reuters article

PPL Corp. today said that it would increase the capacity of its Susquehanna nuclear power plant. The \$120 million of improvements at the Susquehanna plant are expected to add to earnings as soon as they go into operation.

The capacity of the 2,200 megawatt Susquehanna plant in Luzerne County, Pennsylvania, will be increased with the installation of more efficient Siemens Westinghouse Corp. steam turbines to replace units that have been in operation since the early 1980s. The new turbines will be installed in the spring of 2003 and 2004 during refueling outages at the plant. ¶

Nuclear Nonsense

from a April 29, 2001, *The Wall Street Journal* letter to the editor
by: Eric Epstein, TMLA

Nuclear power's purported rebirth has been offered as a panacea to current energy problems associated with electric deregulation. This "orchestrated groundswell" has enjoyed minimal critical analyses from this publication, and media outlets throughout the country. However, a close examination of the "benefits" of nuclear power clearly demonstrate that this energy source remains uneconomical, unhealthy, and toxic.

Laissez-Faire Regulation: The current regulatory protocol, the Reactor Oversight Process (ROP), was instituted by the Nuclear Regulatory Commission (NRC) in 1998 at the behest of the Nuclear Energy Institute (NEI) and nuclear industry. The Reactor Oversight Process has produced "deregulated regulation." The ROP is based on a specious document, i.e., The Martin Report (1995) to support the reduction of NRC staffing levels. The Martin Report (1995) compared NRC staffing levels with that of their counterparts in Japan and France. While these countries had half of the employees of the U.S., the reported failed to recognize: 1) the large number of technical employees provided by the national government in support operations; and, 2) the Generic reactor models employed by these nations.

As part of the ROP, the NRC's budget for fiscal year 1999 was slashed by 17 million by the Senate Appropriations Committee. The

public has witnessed a net decrease in dedicated inspector hours at nuclear stations from 3,100 to 2,500. Sam Collins from the NRC's Division of Nuclear Reactor Regulation, noted that the new Reactor Oversight Process has lead to a 10-15% reduction in inspection hours. This "industry friendly" process abolished the Systematic Assessment of Licensee Performance (SALP) and the "Watch List."

Government subsidies: According to the Congressional Research Service, nuclear power received 60% of all federal research and development monies from 1948-1994, or \$97 billion since 1950. The Price-Anderson Act limits industry liability, nuclear corporations carry billions of dollars of property indemnification, and possess replacement insurance to help defray the costs of refueling and extended outages. Paradoxically, citizens are precluded from purchasing nuclear insurance, while they subsidize the industry to protect itself from itself. Moreover, rate payers are saddled with paying for the industry's uneconomical investments, i.e., "stranded costs." Two of the most "bullish" nuclear corporations, PECO Energy and PPL, recovered over \$8.3 billion in "uneconomical investments." This figure does not include the millions in savings PECO and PPL have accrued by unilaterally devaluing the combined PURTA and Real Estate tax assessments for their nuclear generating stations. The National

Energy Security Bill 2001, proposed by President Bush, provides the following subsidies for the nuclear industry: \$25 million for the design and development of new "inherently safe" reactors; \$750 million in production incentives for aging reactors; and, an additional \$20 million for a "1%" increase in energy efficiency. This legislation would allow companies to deduct the costs of on-site spent fuel storage now that those costs are no longer borne by rate payers in deregulated states.

Government subsidies also take the form of cost avoidance as evinced by the implementation of the Revised Oversight Process. The NEI estimated that the, "Elimination of Level IV violations would save the average plant \$300,000 annually in violation response expenses." This bizarre logic allows that the more violations a plant accrues, the greater the financial and personnel savings. The NEI estimated that it costs the plant owner's approximately \$50,000 to respond to each Violation. Case in point: By supplanting Severity Level IV Violations with "Non-Cited Violations," the Commission saved the Peach Bottom Atomic Power Station at least \$900,000 from June 9, 1998 through October 22, 2000. (PECO/Exelon accumulated 18 "Non-Cited Violations" in this period.) The NEI also projected savings in annual baseline inspections to be \$63,000. Peach Bottom's savings during last

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year's refueling was at least \$100,000. Victor Dricks, NRC spokesman, also noted that baseline inspection hours could be reduced from 350 to 900 hours per plant for an annual cost avoidance of at least \$300,000. Simply by doing nothing, and requiring PECO/Exelon to do less, the NRC saved PECO/Exelon at least \$1.7 million in two years at one reactor site.

Reliability: Experience at large commercial nuclear power plants over 200 MWe has clearly demonstrated that most nuclear units will not operate for 40 years. The chief indicators that the nuclear industry relies on to measure plant longevity are spurious and imprecise. There is no clear nexus between operating capacity (measure of electricity actually produced compared to what would have been generated if the plant had operated continuously at full power) and plant longevity.

America is littered with reactors shutdown prematurely, including: Three Mile Island-2, Fermi-1, Humboldt Bay, Dresden-1, Indian Point-1, Shoreham, Rancho Seco, Trojan, San Onofre-1, and Big Rock Point. On December 4, 1996, Haddam Neck closed prematurely in the hope of saving rate payers \$100 million, and on May 27, 1997, Maine Yankee was shut down and became the first Combustion Engineering reactor to be prematurely retired. The Connecticut Department of Public Utility Control removed Millstone-1 from the rate base on December 31, 1997. More recently, on January 15, 1998, Commonwealth

Edison announced it was permanently shutting down Zion-1 and Zion-2. Com Ed also reported this decision will cost shareholders \$515 million or \$2.38 per share.

With the premature closure of the Zion units, every American commercial nuclear reactor type and supplier has experienced early retirement well before their planned 40 year operating life.

Greenhouse gases and public health:

Nuclear power generates significant amounts of radioactive and fossil emissions. The industry's mouthpiece, the Nuclear Energy Institute (NEI), was disciplined for attempting to propagate the myth that nuclear power is a benign energy source. On December 9, 1998, the Better Business Bureau (BBB) forced the NEI to change a misleading advertising campaign that proclaimed nuclear generation does not harm the environment. The BBB stated: "The process currently used to produce at least some, if not most, of the uranium enriched fuels that are necessary to power nuclear energy plants emits substantial amounts of environmentally harmful greenhouse gases." The NEI did not appeal the decision.

According to the NEI, Edward Teller, and the nuclear industry: "No one was killed at Three Mile Island." However, during the accident, the plant's operator reported monitors went off stack, filters became "clogged" and radiation monitoring devices were "missing." Just how much radiation was released during the accident is unclear and

varies from "276 to 63,000 person-rem delivered to the general population within 50 miles" (Beya, 1984.) Since the TMI-accident, the plant's owners, General Public Utilities, (GPU) and its 4 co-defendants and insurers have paid over \$70 million in health, economic and evacuation claims, including a \$1.1 million settlement for a baby born with Down Syndrome. In June, 2000, the United States Supreme Court remanded 1,990 health suits from the TMI-accident to Federal Court. (GPU V. Abrams; Dolan v. GPU.)

Government and industry sponsored "health studies" were completed in the early 1980s, relied on dose projections, and did not factor data available in 1985 which demonstrated TMI-2 experienced a partial-core melt. Nor did any of these studies evaluate the impact to members of our community who defueled Three Mile Island. In fact, General Public Utilities choose not to maintain a health or cancer registry, despite the fact that from 1979-1989, 5,000 clean-up workers received "measurable doses" of radiation exposure. In August, 1996, a study by the University of North Carolina-Chapel-Hill, authored by Dr. Steven Wing, reviewed the Susser-Hatch (Columbia University; 1991). Dr. Wing reported "...there were reports of erythema, hair loss, vomiting, and pet death near TMI at the time of the accident...Accident doses were positively associated with cancer incidence. Associations were largest for leukemia, intermediate for lung cancer, and smallest for all cancers combined...Inhaled

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radionuclide contamination could differentially impact lung cancers, which show a clear dose-related increase."

Radioactive waste: Spent fuel "disposal" is the unresolved riddle of nuclear power generation. Each reactor produces approximately 20-30 metric tons of toxic, high-level radioactive waste (HLRW) per year. The technology to safely manage HLRW for an indefinite period does not exist. Rather than trying to constructively resolve this dilemma, the nuclear industry has sued the Department of Energy, and mounted a public relations campaign to convince Nevada

to accept a nuclear waste site (Yucca Mountain) that is geologically flawed and opposed by an overwhelming majority of Nevadans. Even if Yucca Mountain came on line in 2010, it would not have the capacity to store the radioactive waste that has already been generated. Moreover, Yucca Mountain must be designed to isolate nuclear waste for 10,000 years or 400 generations. Constructing a new generation of nuclear power would create additional tonnage of "low-level," "high-level," and "mixed" radioactive waste. This is clearly an irresponsible scenario that would perpetuate the vicious cycle of generating radioactive waste that has nowhere to go.

Conclusion: Those of us who live, work, and parent in close proximity to nuclear power plants have paid the price for corporate hubris and editorial ignorance. To further subsidize a technological relic from the Cold War would accelerate nuclear proliferation, undermine American national security, and create inter-generational debt. Nuclear utilities have historically profited from governmental largess. To embrace a new round of nuclear reactors is to endorse corporate socialism. Those who promote an "inherently safe" generation of nuclear reactors are asking America to ride a horse backwards into the Twentieth Century. ¶

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RETURN TO: TMIA, 315 Peffer Street, Harrisburg, PA 17102

The official registration and financial information for Three Mile Island Alert may be obtained from the PA Department of State by calling toll free, within PA, 1-800-732-0999. Registration does not imply endorsement.

CANDLES ON THE WATER

Sunday, August 5, 2001

7 p.m. Interfaith Service at Market Square Presbyterian Church

8 p.m. Launching of the Candlelit Peace Boats down the Susquehanna

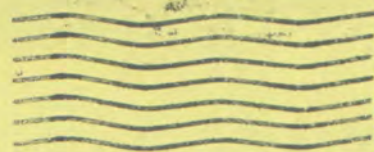
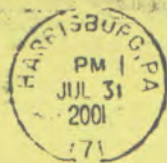
The Hiroshima and Nagasaki Committee is looking for children who would like to speak about Children's Rights. In the past, children have read letters, essays, and poetry. (5 minute time limit) Any children who would like to share their thoughts should contact Jess Hayden at 932-2348 or Deb Davenport at 763-9552.

Sponsored by the Hiroshima and Nagasaki Committee

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