



DOCKET NUMBER PERMONRUE PRE 52-2 (66 FR 48828)

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DOCKETED **USNRC**

December 18, 2002

Annette L. Vietti-Cook Secretary U.S. Nuclear Regulatory Commission Mail Stop O-16 C1 Washington, DC 20555-0001

December 20, 2002 (12:52PM)

OFFICE OF SECRETARY **RULEMAKINGS AND** ADJUDICATIONS STAFF

ATTN:

Rulemakings and Adjudications Staff

SUBJECT: Petition for Rulemaking PRM-52-2

Supplemental Comments

Dear Ms. Vietti-Cook:

On behalf of the nuclear energy industry, and pursuant to 10 CFR 2.802, the Nuclear Energy Institute (NEI)¹ submitted a petition for rulemaking July 18, 2001, regarding the NRC's application of the National Environmental Policy Act (NEPA). The industry requested that the NRC delete the requirement for an alternate site review to be done as part of the Early Site Permit (ESP) process and revise 10 CFR Part 51, by which the NRC implemented the requirements of NEPA, because of the fundamental changes that have occurred in the nuclear energy industry from when Part 51 was last revised.

Since the industry's petition was filed in 2001, a number of developments have occurred that cause us to recommend a slightly different approach from that advocated in our July 18, 2001, petition. A detailed analysis of the current law underlying the industry's position was provided to the NRC staff on November 19, 2002,2 to provide the legal underpinnings for the industry's recommended approach to alternate site reviews in the 10 CFR Part 52 early site permit context. While

¹ NEI is the organization responsible for establishing unified nuclear industry policy on matters affecting the nuclear energy industry, including regulatory aspects of generic operational and technical issues. NEI's members include all utilities licensed to operate commercial nuclear power plants in the United States, nuclear plant designers, major architect/engineering firms, fuel fabrication facilities, materials licensees, and other organizations and individuals involved in the nuclear energy industry.

² ESP 18A: Alternate Site Reviews for Early Site Permit Applicants Using Existing License Sites (copy attached), transmitted by email November 19, 2002, for discussion at NRC public meeting held December 5, 2002.

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focused on early site permits, the legal analysis is equally applicable in every other context of the NRC's evaluation of alternatives.

The fundamental conclusion is that both law and policy reasons justify the NRC limiting its NEPA analysis of alternatives to those that are pertinent in the context of the license application before it. Where an applicant has evaluated alternate sites, the NRC should review those evaluations to satisfy NEPA's "hard look" requirement. Secondly, if the circumstance were ever to occur where a license applicant has ownership or control of only a single site, and, because of the nature of its business, has conducted no alternate site analysis, the NRC need not embark on a potentially limitless evaluation of sites that it, but not the applicant, might conclude are potential alternative sites. Rather, the NRC should evaluate whether the proposed facility could be located on that site in compliance with all pertinent laws and NRC regulations. This approach would also be consistent with the Commission's decision in Hydro Resources, Inc. (P.O. Box 15910, Rio Rancho, NM 87174), CLI-01-4 (2001) and the NRC staff's guidance in NUREG-1555, Environmental Standard Review Plan, Section 9.3.111.8.

Although the attached legal analysis was developed for the use of the three companies currently involved in the Early Site Permit pre-application process, it provides strong evidence supporting the industry's fundamental position as articulated in our July 18, 2001, submittal.

However, as a result of this more recent analysis, we have concluded that the modifications to 10 CFR Part 52, Subpart A, that were proposed in our letter of July 18, 2001, should not be adopted. Rather, we have concluded that alternate sites should be evaluated, but that the evaluation should be conducted in accordance with the principles established by the courts and as summarized above. This would be completely consistent with the practices of other agencies, recognizing the distinction between the NEPA analysis required for federal projects and that required for private projects requiring federal approval.

We continue to believe, as indicated in our original petition, that 10 CFR Part 51 should be modified to eliminate all references to an evaluation of the need for power and alternate energy sources because of the developments in the electricity industry that have occurred since those provisions were written. As part of that rulemaking, conforming changes should be made to 10 CFR Part 52, Subpart A, to delete the reference to an evaluation of need for power and alternate energy sources. The NRC need not, and should not, commit its limited resources to activities that are not legally required or that do not serve a valid public purpose. As a result, we recommend that the Commission direct the NRC staff to commence a rulemaking proceeding to modify 10 CFR Part 51 accordingly.

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If you have any questions concerning these supplemental comments, please contact me at 202.739.8139 or rwb@nei.org.

Sincerely,

Rebert W. Bishop

Enclosure

c: The Honorable Richard A. Meserve, Commissioner, USNRC
The Honorable Greta Joy Dicus, Commissioner, USNRC
The Honorable Nils J. Diaz, Commissioner, USNRC
The Honorable Edward McGaffigan, Jr., Commissioner, USNRC
The Honorable Jeffrey S. Merrifield, Commissioner, USNRC
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ESP-18a:

Alternative Site Reviews For Early Site Permit Applicants Using Existing Licensed Sites

1. Introduction

This paper discusses and justifies a reasonable approach for considering alternative sites in an Early Site Permit Proceeding (ESP). 1 10 C.F.R. § 52.17(a)(2) requires an ESP applicant to include in its Environmental Report an evaluation of alternative sites to determine whether there is any obviously superior alternative to the site proposed. 2 As explained in this paper, where ESP applicants, such as the three lead applicants, seek approval of an existing nuclear site for new nuclear units, the evaluation of alternatives should be limited to consideration of other nuclear sites controlled by the applicant, and any other evaluation performed by the applicant (e.g., a generic green-field site, a generic industrial site.)

This scope of evaluation complies with NEPA's standard of reasonableness. The Courts have held that NEPA's requirement to consider alternatives is subject to a rule of reason, and that only those alternatives that serve a private applicant's goals and needs should be considered. While the goals and needs of the public utility applicants who proposed in the 1960s and 1970s to build their first generation of plants may have justified evaluation of a broader range of sites at that time, the goals and needs of today's applicants justify a more focused review. As a practical matter, an applicant for new nuclear units will generally be limited to the expanded use of property it already owns, and the competitive need for economies of scale will strongly militate toward using existing nuclear facilities. Consequently, there should be a strong presumption that new sites do not serve an applicant's need and therefore do not have to be evaluated as alternatives under NEPA.

In addition, there should be a strong presumption that new sites are not "obviously superior" to the expanded use of an existing nuclear site, which has already gone through a previous NEPA review and evaluation of alternatives, and which is already developed and dedicated to nuclear use. A discussion of a generic greenfield site and a generic industrial site as described in Section III.B would be provided by the applicant to confirm that there is no reasonable likelihood that such sites will be obviously superior.

The NRC has long recognized the need to develop new guidance on consideration of alternative sites for new applicants, taking into account the changing nature of the electric industry. In a 1991 Staff Requirements Memorandum on SECY-91-041,

The position in this paper would also apply to a combined Construction and Operating License (COL) proceeding in those cases where an ESP has not been previously obtained

That standard was first established by the Commission for the evaluation of alternative sites for new nuclear power plants in <u>Public Service Co of New Hampshire</u> (Seabrook Station, Units 1 and 2), CLI-77-8, 5 NRC 503, 526-30 (1977). "Obviously superior" was later interpreted also to mean "substantially better." <u>Rochester Gas and Electric Corp</u> (Stirling Power Project, Nuclear Unit No. 1), CLI-80-23, 11 NRC 731, 737 (1980).

Early Site Readiness Review, the Commission stated, "in developing guidance for the review of the early site permit, the staff should consider the need for guidance on the number of alternative sites that must be considered and whether this number would depend on the nature . . . of the ESP applicant permitted under Part 52." While an NRC rulemaking initiative to address this issue became inactive because of other priorities, the NRC reactivated the initiative in 2000 with the objective of commencing a rulemaking in mid FY 2002. Memorandum from W. Travers to the Commissioners, Reconsideration of the Rulemaking Activity Plan: Alternative Site Reviews (RM#313) (Dec. 18, 2000). Clearly, it is time to move forward with an approach that recognizes the changes in the industry and focuses the environmental review so that only those alternative sites that meet a private applicant's goals and needs are examined.

2. Legal Standards .

It is well established that NEPA's requirement to examine alternatives is subject to a "rule of reason." NRDC. v. Morton, 458 F.2d 827 (D.C. Cir. 1972). This rule of reason requires agencies to consider only "those alternatives necessary to permit a 'reasoned choice." City of Angoon v. Hodel, 803 F.2d 1016, 1021 (9th Cir. 1986), cert. denied, 484 U.S. 870 (1987); California v. Block, 690 F.2d 753, 767 (9th Cir. 1982). "[T]he touchstone . . . is whether an EIS's selection and discussion of alternatives fosters informed decision-making and informed public participation." California v. Block, 690 F.2d at 767.

In <u>Vermont Yankee Nuclear Power Corp. v. Natural Resources Defense Council</u>, 435 U.S. 519 (1978), the Supreme Court explained that alternatives are not self-defining and must be bounded by some notion of feasibility. 435 U.S. at 551. An EIS cannot be found wanting simply because the agency failed to include every alternative device and thought conceivable to the mind of man. <u>Id.</u> at 551. Thus, only reasonable alternatives – alternatives that are ascertainable and reasonably within reach – need be examined. <u>City of Angoon</u>, 803 F.2d at 1022; <u>Druid Hills Civic Ass'n v. Federal Highway Admin.</u>, 772 F.2d. 700, 712 (11th Cir. 1985), <u>cert. denied</u>, 488 U.S. 819 (1988).

In addition, only alternatives that serve the purpose of the proposed action need be considered. See City of Angoon, 803 F.2d at 1021 ("When the purpose is to accomplish one thing, it makes no sense to consider the alternative ways by which another thing may be achieved."); Trout Unlimited v. Morton, 509 F.2d 1276, 1286 (9th Cir. 1974) ("The range of alternatives that must be considered need not extend beyond those reasonably related to the purpose of the project."). See also North Buckhead Civic Ass'n v. Skinner, 903 F.2d 1533, 1542-43 (11th Cir. 1990). In 1991, the U.S. Court of Appeals for the District of Columbia Circuit ruled on an FAA environmental impact statement that considered only the alternatives of approving an airport expansion or not approving the expansion. Citizens Against

Burlington v. Busey, 938 F.2d 190 (D.C. Cir.), cert. denied, 502 U.S. 994 (1991). The Court assessed the range of alternatives as follows: "[T]he proposed alternative is reasonable only if it will bring about the ends of the federal action The goals of an action delimit the universe of the action's reasonable alternatives." Id. at 195 (citations omitted). To support its ruling, the court cited, as an example, a proposed reactor in Vernon, Vermont:

If licensing the Vernon reactor is meant to help supply energy to New England, licensing a reactor in northern New York might make equal sense. If licensing the Vernon reactor is meant as well to stimulate the Vernon job market, licensing a reactor in Lake Placid would be far less effective.

<u>Id</u>. In its example, the court permitted the agency to limit the range of alternatives to be considered to match the purpose and need of its proposed actions.

The FAA described its objectives in this case as follows: "to launch a new cargo hub in Toledo and thereby helping to fuel the Toledo economy." <u>Id</u>. at 198. The FAA then eliminated three alternatives preliminarily from the EIS, evaluating only the build/no build alternative. The three alternatives excluded from consideration were: approving other geometric configurations for expanding the Toledo airport, approving plans for other airports both in the Toledo metropolitan area and out of it. The court upheld this process as legally sufficient. Furthermore, the court showed great deference to the sponsoring agency in defining its objectives "so long as the objectives that the agency chooses are reasonable" and "so long as the alternatives are reasonable and the agency discusses them in reasonable detail." <u>Id</u>. at 196.

Moreover, the Court emphasized that where the reviewing agency is considering a private applicant's proposal, rather than a government project, it is the private applicant's goals that shape the scope of alternatives to be considered.

The scope of alternatives considered by the sponsoring Federal agency, where the Federal government acts as a proprietor, is wide ranging and comprehensive. Where the Federal government acts, not as proprietor, but to approve and support a project being sponsored by a local government or a private applicant, the Federal agency is necessarily more limited. In the latter instance, the Federal government's consideration of alternatives may accord substantial weight to the preferences of the applicant and/or sponsor in the siting and design of the project.

<u>Id.</u> at 197; <u>accord City of Grapevine v. DOT</u>, 17 F.3d 1502, 1506 (D.C. Cir.), <u>cert. denied</u>, 513 U.S. 1043 (1994).

Further, the Court stressed that a private applicant's need and purpose are to be respected:

An agency cannot redefine the goals of the proposal that arouses the call for action; it must evaluate alternative ways of achieving its goals, shaped by the application at issue and by the function that the agency plays in the decisional process. Congress did expect agencies to consider an applicant's wants when the agency formulates the goals of the proposed action. Congress did not expect agencies to determine for the applicant what the goals of the applicant's proposal should be.

Citizens Against Burlington, 938 F.2d at 199.

These principles are illustrated in <u>City of Angoon</u>. In that case, the Corps of Engineers had prepared an EIS evaluating a proposal by a native tribe to build a log transfer facility on its land. The Court upheld the statement of purpose and need as providing a safe, cost-effective means of transferring timber harvested on the tribe's land to market. 803 F.2d at 1021. Having accepted this statement of purpose, the Court ruled that the EIS did not have to consider as alternatives the possibility that the tribe might be able to exchange its property for land elsewhere. The Court stated that when the purpose is to accomplish one thing, it makes no sense to consider alternative ways by which another thing might be achieved. <u>Id.</u> The Court added, "[t]o require the Corps to select one or more tracts for exchange which, in its view, might induce both an offer and acceptance is to visit upon it a task that would involve almost endless speculation." <u>Id.</u>

The Commission recently addressed the question of the scope of reasonable alternatives and followed the case law discussed above in <u>Hydro Resources</u>, <u>Inc.</u> (P.O. Box 15910, Rio Rancho, NM 87174), CLI-01-4 (2001), in which it affirmed a licensing board decision regarding a proposed <u>in situ</u> uranium leach mining project.

Agencies need only discuss those alternatives that are reasonable and "will bring about the ends" of the proposed action. "When the purpose is to accomplish one thing, it makes no sense to consider the alternative ways by which another might be achieved."

<u>Id.</u> at 55 (citations omitted). The Commission recognized that the purposes of the project in that case were not merely to provide fuel to nuclear power plants but also to maintain the viability of the domestic uranium mining industry in order to assure a dependable domestic source of uranium; to provide socioeconomic benefits to the local community, the local governments, and the State of New Mexico; and to provide a profit for the license applicant. <u>Id.</u>

The Commission distinguished private projects from Federal projects:

"Where the Federal government acts, not as a proprietor, but to approve . . . a project being sponsored by a local government or private applicant, the Federal agency is necessarily more limited." The NRC is not in the business of crafting broad energy policy involving other agencies and nonlicensee entities. Nor does the initiative to build a nuclear facility or undertake . . . uranium mining belong to the NRC.

When reviewing a discrete license application filed by a private applicant, a federal agency may appropriately "accord substantial weight to the preferences of the applicant and/or sponsor in the citing and design of the project." The agency thus may take into account the "economic goals of the project's sponsor."

<u>Id.</u> (citations omitted). The Commission noted that the applicant proposed to mine in the chosen location because it owned land there in fee simple and that was where the ore body was located. <u>Id.</u> at 56. The alternatives evaluated in this case did not include any alternative sites; rather, they included different levels of mitigation of environmental impacts at the proposed site plus the no action alternative. <u>See Hydro Resources</u>, <u>Inc.</u> (P.O. Box 15910, Rio Rancho, NM 87174), LBP-99-30, 50 NRC 77, 132-33 (1999).

The Commission undertook broader inquiries into electric utility applicants' alternative site analyses for new power plants in the late 1970s, but those cases predated the judicial interpretations of NEPA discussed above and therefore need not be followed. The practices of the 1970s also addressed siting decisions by traditional public utility applicants and are therefore factually distinguishable.³

While the NRC case law of the 1970's is distinguishable and should not be followed, even some of the old standards established in the 1970s would support limiting review to existing sites. The Commission held that applicants could consider the actual cost of completing the plant at each site, Seabrook, CLI-77-8, 5 NRC at 531-32, thus giving proposed sites near existing infrastructure an advantage over virgin sites. The Appeal Board later held that alternative sites less expensive but more environmentally harmful than the proposed site need not be considered at all. Consumers Power Co. (Midland Plant, Units 1 and 2), ALAB-458, 7 NRC 155, 162 (1978). Applicants could also consider the proximity of potential sites to the load centers to be served by the power plants, balancing the load on the electrical transmission system, and potential impacts on grid reliability. Seabrook, CLI-77-8, 5 NRC at 540. Those factors would favor existing power plant sites over virgin sites or other industrial sites. Finally, it held that applicants could consider "possible institutional and legal obstacles associated with construction at an alternat[iv]e site," including, in that case, the lack of franchise privileges and eminent domain powers and the need to restructure existing financial and business relationships Id. Such institutional and legal factors would appear to favor existing nuclear sites very strongly.

3. Alternative Site Review for an ESP Applicant Should Be Focused and Limited by the Applicant's Need

Based on the developments in the law discussed above, the NRC should limit its evaluation of alternatives to those that serve the private applicant's goals and needs. Where the purpose of an applicant for an ESP or COL is to build new units at existing nuclear sites, it makes no sense – and NEPA does not require – consideration of building those units at other locations that the applicant does not control. To attempt to evaluate alternative sites that the applicant would have to acquire (which might well prove impractical or uneconomic), particularly for a merchant applicant with no defined service territory, would involve just the sort of task involving endless speculation that the Courts have indicated is unnecessary.

A. Non-Nuclear Sites Will Not Serve the Applicant's Goals and Needs

Applicants proposing to build new nuclear plants may have needs and constraints that are very different from those of the public utility applicants in the 1960's and 1970's. These needs and constraints, discussed below, create a strong presumption that only the use of the applicant's existing nuclear sites would serve the applicant's goals.

Applicants may not have powers of eminent domain to acquire new property. Therefore, when proposing to develop new nuclear units, which require an area of considerable size to meet Exclusion Area requirements, the applicants may generally be constrained to use existing sites. It is possible that a very large industrial site might be acquired, but the likely cost and complexity of such an acquisition for a new nuclear generating station makes this possibility very remote.

Such applicants can only proceed with the development of a new nuclear plant if it is economic. They cannot recover their construction costs through cost-of-service rates and therefore do not have the luxury of selecting and developing new sites. Rather, obtaining economies of scale by sharing the resources and infrastructure of an existing nuclear site may be critical to the economic viability of the project and to the competitiveness of the applicant. In general, a multi-unit site will have a substantial cost advantage over a single unit station. Developing a new nuclear plant at a fossil station or at an industrial site would not provide the same economies of scale, because such a site would not offer the trained nuclear work force or nuclear facilities. For example, establishing offsite emergency planning and preparedness at an industrial or fossil plant would be a considerable expense that could be avoided by using an existing nuclear site.

Use of an existing nuclear site also offers a considerable opportunity for reduced construction costs. An enormous amount of information needed to characterize the

site will already exist. In addition, use of an existing site is much more likely to be supported by the local populace and government. Political acceptance of a new nuclear plant will be very important for the applicant because the potential for the types of delays that occurred at some plant sites in the past is simply incompatible with modern-day business needs.

Applicants may not serve established service territories. Therefore, they seek to add capacity at locations that serve market opportunities, consistent with the constraints of the transmission system and the economics of the project. Thus, the siting decisions of the applicants are fundamental business decisions driven by the market and finances, rather than franchise decisions established for the public convenience and necessity. This is just the type of private business decision to which the agency should defer.⁴

B. Non-Nuclear Sites Are Unlikely to Be Obviously Superior

The fact that an existing nuclear site has already gone through the NEPA process creates a strong presumption that there are no obviously superior alternative sites. In connection with the original selection and licensing, existing sites will already have gone through a screening and evaluation process establishing their suitability, including, for most, a NEPA evaluation of alternatives. The original siting studies were extensive and resulted in the selection and development of the sites chosen, and, absent new and significant information, it is highly unlikely that there are obviously superior alternatives.

In addition, an existing nuclear site is already developed and dedicated to nuclear use. It is hard to conceive of a situation where the construction of new nuclear units at a green-field site would be environmentally superior to the expanded use of an existing nuclear site. It also seems unlikely that development of a non-nuclear industrial site, lacking the necessary infrastructure, could be an "obviously superior" alternative to the expanded use of an existing nuclear site.⁵

These factors greatly distinguish a proposal to site new units at an existing nuclear facility from the applications that were submitted decades ago for first generation plants at pristine locations. Accordingly, the need to evaluate a broad slate of sites no longer exists when an ESP application proposes to use an existing nuclear site. At

As a practical matter, ignoring the applicant's business judgment could lead to a limitless evaluation of alternative sites because the applicant has no service territory defining the geographic region of interest.

Even in cases dealing with the construction of the first generation of plants, the NRC recognized that a proposal to use an existing site is a significant factor, though not dispositive. Rochester Gas & Electric Corp (Stirling Power Project, Nuclear Unit No. 1), ALAB-502, 8 N.R C. 383, 394-95 (1978), citing Boston Edison Co. (Pilgrim Nuclear Generating Station, Unit 2), ALAB-479, 7 N.R.C. 774, 789 (1978). Stirling was unique in that the intervenors were arguing for an existing site while the applicant was arguing for a virgin site. Thus, the factor favoring the applicant's preference was counterbalancing the factors favoring existing sites—a situation unlikely to recur today.

most, a comparison of the existing site against a generic green-field site and a generic industrial site may be appropriate, to confirm the absence of any anomalous characteristics that might alter the presumption that no obviously superior sites exist.⁶

4. Conclusion

For all of these reasons, the NRC should limit its consideration of alternative sites to existing nuclear sites controlled by the applicant, coupled with the applicant's discussion of generic green-field and industrial sites to confirm the presumption that no obviously superior site exists. This approach would focus the review of alternative sites on those serving the private applicant's needs, consistent with the most recent court decisions. The review would also be focused on those sites that a reasonable person would clearly favor. The approach would similarly result in a more efficient, meaningful and reasonable review by avoiding a wasteful evaluation of alternatives that an applicant has no intention, means or wish to develop.

The NRC and Congress have both recognized the need to improve the efficiency and reliability of the NRC licensing process. This objective is all the more important for the next generation of plants because applicants relying on private financing simply cannot afford to participate in some of the protracted proceedings of the past. Respecting the applicant's business needs and judgment will provide some of the certainty that is required for development of the next generation of plants to proceed. In contrast, launching into a far-reaching evaluation of alternative sites, second-guessing an applicant's choice after the applicant has devoted the time and resources necessary to prepare its application, would be an unnecessary obstacle to efficient and predictable licensing, and would also be inconsistent with NEPA's rule of reason.

For many years, the Commission's practice was to not initiate an extensive review of an applicant's site selection process unless substantial inferior qualities were identified at he applicant's proposed site. 45 Fed. Reg. 24,168 (1980). In the late 1970s, however, the NRC "dramatically expanded its review of the applicant's site selection process and procedures, as well as its review of the scope and depth of the detailed investigation of alternative sites." Id The change in the nature of the industry, and the changes in interpretation of NEPA that occurred after the environmental reviews for the current generation of plants, now justify a return to the practice of limiting review in the absence of any significant, environmentally negative characteristic of the applicant's proposed site. An agency is not required under NEPA to consider alternatives when such consideration would serve no purpose. NRDC. v. SEC, 606 F.2d 1031, 1054 (D C. Cir. 1979); Citizens Comm Against Interstate Route 675 v. Lewis, 542 F. Supp. 496, 540 (S. D. Ohio 1982).