

# 1.0 GENERAL INFORMATION

## 1.1 SITE DESCRIPTION

### 1.1.1 Purpose of Review

The purpose of this review is to establish that the information provided by the applicant adequately summarizes the geographic, demographic, meteorologic, hydrological, geological, and seismological characteristics of the site and the surrounding area.

### 1.1.2 Responsibility for Review

Primary: Certification Project Manager

Secondary: All Reviewers

Supporting: Resident Inspector Staff

### 1.1.3 Areas of Review

The primary reviewer with assistance from secondary reviewers, should review the site descriptive information contained in the application. Topics to review include site geography, demographics, meteorology, hydrology, and geology and seismology.

### 1.1.4 Review Procedures

#### 1.1.4.1 Acceptance Review

The staff review should start with the primary reviewer's determination that sufficient information has been provided in the contents of the application to satisfy the requirements in 10 CFR 76.35, "Contents of Application," and 10 CFR 76.36, "Renewals," with respect to site descriptions for gaseous diffusion plant (GDP) facilities—see Standard Review Plan (SRP) Section 1.1.5.1, "Regulatory Requirements"—and that topics discussed in SRP Section 1.1.3, "Areas of Review," have been addressed.

If significant deficiencies are identified in the application, the applicant should be requested to submit additional material before the staff resumes the application review.

#### 1.1.4.2 Evaluation

The primary reviewer should ensure that the description of the site is adequately detailed, including maps and site plans, to provide reviewers with enough background material to permit efficient reviews in other sections of this SRP.

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Types of information the primary and secondary reviewers should review include the following:

### 1. Site Geography

- a. Site location: State, county, municipality (including maps at each level);
- b. Major highways;
- c. Nearby bodies of water; and
- d. Any other significant geography that may impact accident analyses within 1.6 km (1 mile) of the site (e.g., ridges, valleys, etc.).

### 2. Demographics

- a. Latest census results for area of concern;
- b. Description, distance, and direction to nearby population centers;
- c. Description, distance, and direction to nearby public facilities (e.g., schools, hospitals, parks, etc.);
- d. Description, distance, and direction to nearby industrial areas that may include potential hazards (including other nearby nuclear facilities);
- e. Uses of land in area of concern (i.e., residential, industrial, commercial, agricultural);
- f. Uses of nearby bodies of water (if any).

### 3. Meteorology

- a. Primary wind direction(s);
- b. Annual amount(s) and form(s) of precipitation;
- c. Design basis meteorological event descriptions (tornado, wind, lightning, etc.) used for accident analysis.

### 4. Hydrology

- a. Characteristics of nearby rivers, streams, and bodies of water, as appropriate;
- b. Distance to the water table;
- c. Groundwater flow direction and speed for the site;
- d. Design basis flood event used for accident analysis;
- e. Locations of groundwater monitoring wells, if any.

### 5. Geology and Seismology

- a. Characteristics of soil types;
- b. Vibratory ground motion (including seismicity, geologic and tectonic characteristics, seismic wave transmission characteristics, and design basis earthquake used for accident analyses);
- c. Surface faulting;
- d. Stability of subsurface materials;
- e. Slope stability.

On the basis of its review, the staff may request that the applicant provide additional information or modify the submittal to meet the acceptance criteria in Section 1.1.5 of this SRP.

The final step in the review is the primary staff reviewer's writing of a Compliance Evaluation Report (CER) that summarizes the conduct of the review, identifies what material in the application forms the basis for a finding of reasonable assurance with respect to the acceptance criteria, and presents the bases for certificate conditions that may be necessary to conclude that reasonable assurance is achieved.

### **1.1.5 Acceptance Criteria**

The regulatory requirements, regulatory guidance, and regulatory review criteria applicable to this SRP are listed in the following sections.

#### **1.1.5.1 Regulatory Requirements**

Section 76.35(a)(8) requires applicants to provide a description of the plant site and a description of the principal structures, systems, and components of the plant.

#### **1.1.5.2 Regulatory Guidance**

No regulatory guidance has been developed in this area.

#### **1.1.5.3 Regulatory Review Criteria**

The staff should use the following regulatory review criteria or information demonstrating acceptable alternatives in its review of the application. Acceptability should be based on the following:

1. A brief description of the site geography, including its location relative to prominent natural and manmade features such as mountains, rivers, airports, population centers, schools, commercial and manufacturing facilities, etc.;
2. Population information, based on the most current census data, to show population distribution as a function of distance from the facility;
3. Appropriate meteorological data;
4. Appropriate hydrological data; and
5. Appropriate geological and seismic data.

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### 1.1.6 Evaluation Findings

The staff's review should verify that sufficient information has been provided in the application to satisfy the intent of requirements in 10 CFR 76.35, "Contents of Application," and 10 CFR 76.36, "Renewals," with respect to the site description and that the information provided is consistent with the guidance in this SRP. On the basis of this information, the staff should be able to conclude that this evaluation is complete.

The staff could document the evaluation of the application as follows:

*The staff has reviewed the site description for [name of facility] according to SRP Sections 1.1.3, 1.1.4, and 1.1.5. The applicant has adequately described and summarized: (1) the site geography, including its location relative to prominent natural and manmade features such as mountains, rivers, airports, population centers, schools, and commercial and manufacturing facilities; (2) population information based on the most current census data to show population distribution as a function of distance from the facility; (3) meteorological data relating to the site; (4) hydrological data relating to the site and nearby surface and groundwater sources; and (5) geological and seismic data relating to the site and its surroundings.*

*On the basis of its review, the NRC staff has concluded that the site descriptive information is adequate to support the recertification.*

### 1.1.7 Reference

Code of Federal Regulations, *Title 10, Energy*, Part 76, "Certification of Gaseous Diffusion Plants."

## **1.0 GENERAL INFORMATION**

### **1.2 INSTITUTIONAL INFORMATION**

#### **1.2.1 Purpose of Review**

The purpose of this review is to establish that the application for recertification includes adequate information identifying the applicant and the proposed activity.

#### **1.2.2 Responsibility for Review**

Primary: Certification Project Manager

Secondary: All Reviewers

Supporting: Resident Inspector Staff

#### **1.2.3 Areas of Review**

Information provided for review should include the identity and address of the applicant; corporate information as appropriate; the site location; a one-line description of each proposed activity in the form of requested authorized uses; and the type, quantity, and form(s) of material(s) proposed to be used pursuant to the certificate of compliance.

#### **1.2.4 Review Procedures**

##### **1.2.4.1 Acceptance Review**

The staff review should start with the primary reviewer's determination that sufficient information has been provided in the contents of the application to satisfy the requirements in 10 CFR 76.35, "Contents of Application," and 10 CFR 76.36, "Renewals," with respect to institutional information for gaseous diffusion plant (GDP) facilities—see Standard Review Plan (SRP) Section 1.2.5.1, "Regulatory Requirements"—and that topics discussed in SRP Section 1.2.3, "Areas of Review," have been addressed.

If significant deficiencies are identified in the application, the applicant should be requested to submit additional material before the staff resumes the application review.

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### **1.2.4.2 Evaluation**

The primary reviewer should ensure that sufficient information is available to permit other reviewers to gain enough familiarity with the institutional information to facilitate efficient reviews in other sections of this SRP.

On the basis of its review, the staff may request that the applicant provide additional information or modify the submittal to meet the acceptance criteria in Section 1.2.5 of this SRP

The final step in the review is the primary staff reviewer's writing of a Compliance Evaluation Report (CER) that summarizes the conduct of the review, identifies what material in the application forms the basis for a finding of reasonable assurance with respect to the acceptance criteria, and presents the bases for certificate conditions that may be necessary to conclude that reasonable assurance is achieved.

### **1.2.5 Acceptance Criteria**

The regulatory requirements, regulatory guidance, and regulatory review criteria applicable to this SRP are listed in the following sections.

#### **1.2.5.1 Regulatory Requirements**

1. Section 76.33(a)(2) of 10 CFR requires that the application include the full name, address, age (if an individual), and citizenship of the applicant. If the applicant is a corporation or other entity, it should indicate the State where it is incorporated or organized and names, addresses, and citizenship of its principal officers, and should include information known to the applicant concerning the control or ownership, if any, exercised over the applicant by any alien, foreign corporation, or foreign government.
2. Section 76.35(a)(1) of 10 CFR requires that the application include the activities and locations involving special nuclear material.
3. Section 76.35(1)(2) of 10 CFR requires that the application include the name, amount, and specifications (including the chemical and physical form and, where applicable, the isotopic content) of the special nuclear material, source, and byproduct material the corporation proposes to use, possess, or produce, including any material held up in equipment from previous operations.

#### **1.2.5.2 Regulatory Guidance**

No regulatory guidance has been developed in this area.

### 1.2.5.3 Regulatory Review Criteria

The staff should use the following regulatory review criteria or information demonstrating acceptable alternatives in its review of the application. Acceptability should be based on the following:

#### 1. Identity and Address

The applicant has furnished its full name and address. The address of the facility to be certified is provided if it is different from that of the applicant. The state where the applicant is incorporated or organized and the location of the principal office are indicated. If the applicant is a corporation or other entity, the names, citizenship, and social security numbers of its principal officers are provided. The location of the plant site (i.e., State, county, and municipality), is given.

#### 2. Activities and Locations

The applicant has provided the information necessary to support the requested certificate of compliance.

#### 3. Type, Quantity, and Form of Material

The elemental name, maximum quantity, and specifications, including the chemical and physical form(s) of the special nuclear material(s) (and any source and byproduct subject to U.S. Nuclear Regulatory Commission (NRC) requirements) the applicant proposes to acquire, deliver, receive, possess, produce, use, transfer or store are identified. For special nuclear material, the specifications should include the isotopic content.

### 1.2.6 Evaluation Findings

The staff's review should verify that sufficient information has been provided in the application to satisfy the intent of requirements in 10 CFR 76.35, "Contents of Application," and 10 CFR 76.36, "Renewals," with respect to the institutional information and that the information provided is consistent with the guidance in this SRP. On the basis of this information, the staff should be able to conclude that this evaluation is complete.

The staff could document the evaluation of the application as follows:

*The staff has reviewed the institutional information for [name of facility] according to SRP Sections 1.2.3, 1.2.4, and 1.2.5. The applicant has adequately described and documented institutional arrangements with the site owner, and the staff finds that the applicant is in compliance with those parts of 10 CFR 76.35 relating to institutional information. In addition, the applicant has adequately described the types, forms, quantities, and proposed uses of materials, under the regulatory authority of the NRC, to be permitted at this facility, as follows:*

Material      Form      Quantity      Authorized Use(s)

*No applicant responsibilities were found to be in conflict with the regulations pursuant to the Atomic Energy Act, as amended. On the basis of its review, the NRC staff concluded that the site descriptive information is acceptable to support the recertification.*

*On the basis of its review, the NRC staff has concluded that the institutional descriptive information is acceptable to support recertification.*

### **1.2.7 Reference**

Code of Federal Regulations, *Title 10, Energy*, Part 76, "Certification of Gaseous Diffusion Plants."