

Yucca Mountain
Nuclear Fuel Locations and Associated Rail Facilities

San Onofre Nuclear Generating Station, California

VIII. SAN ONOFRE NUCLEAR GENERATING STATION, CALIFORNIA

Facility Description

This site is located on the Pacific Ocean approximately 10 miles south of San Clemente in San Diego County. Southern California Edison (SCE) is the majority owner and is the operator of the plant. The plant began commercial operations in 1983 and generates about 17,204 GW-h annually, serving about 20 percent of the electrical power needs of the residents of southern California. The plant's site is 84 acres and originally accommodated three units. The first unit to operate, Unit 1, is no longer in service for power generation and since about 1992 has been used as a spent fuel processing facility.

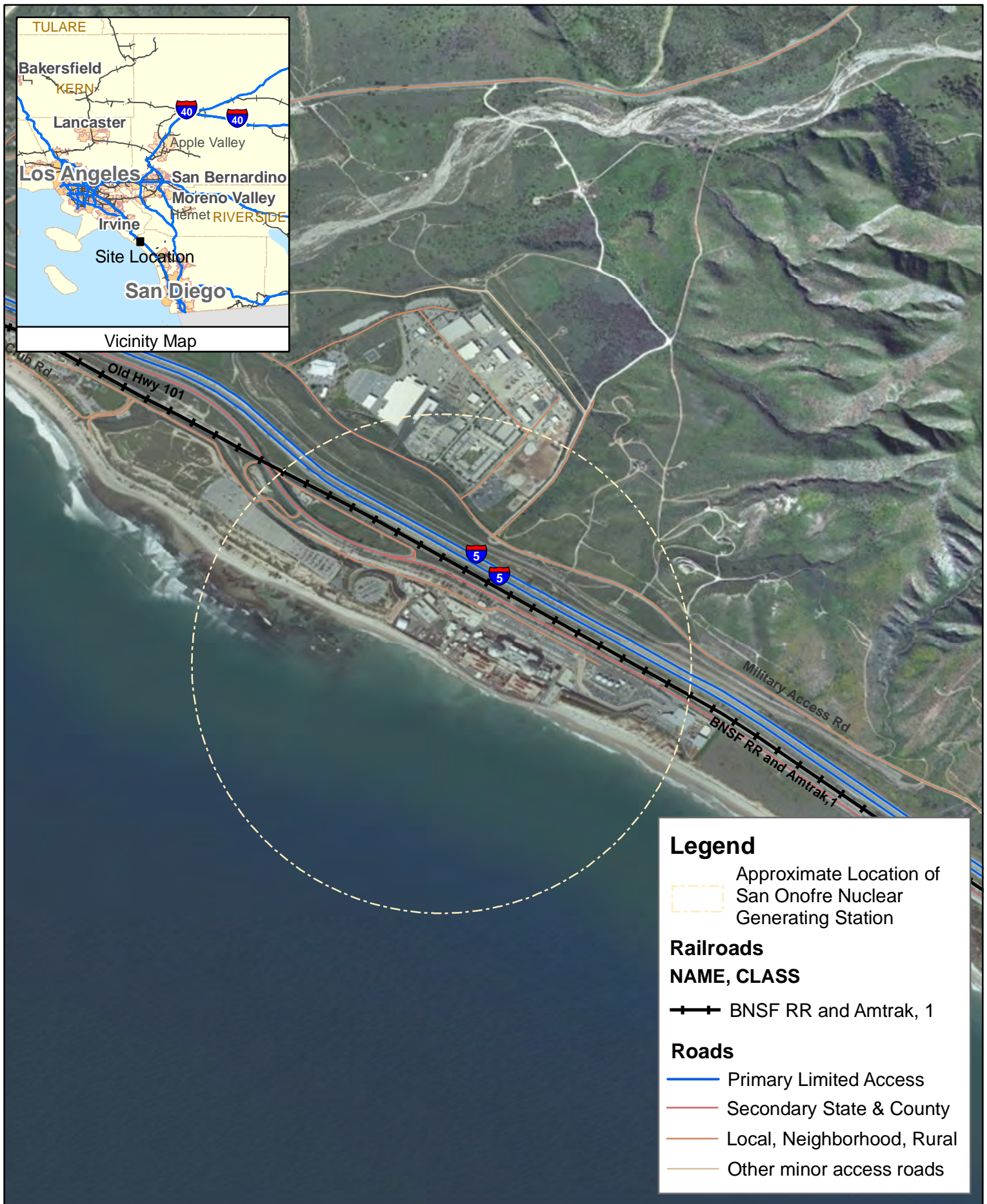
The first of the following maps entitled "**San Onofre Nuclear Generating Station**" show the adjacent track, population centers, interstate highways, public roads and at-grade road/railroad crossings. The second of the two maps illustrates (at a larger scale) the proximity to the track and to Interstate 5 just northeast of the plant.

The railroad segment adjacent to the facility is formerly the Atchison, Topeka & Santa Fe Railroad which sold this part of the railroad to the Southern California Regional Railroad Authority in the mid 1990s. This line is now primarily a high volume high speed passenger line for both Metrolink Commuter Trains and Amtrak Pacific Surfliner Corridor Trains. There is a rail spur into this facility, and it is served by the BNSF. Daily passenger traffic consists of 16 Metrolink commuter trains and 22 Amtrak intercity trains. There are approximately two to four BNSF freight trains operating via trackage rights on this line between San Bernardino and San Diego. Passenger train speed is 90 miles per hour and freight train speed is 55 miles per hour. The minimal freight traffic consists of finished automobiles, paper, steel, lumber and other various commodities.

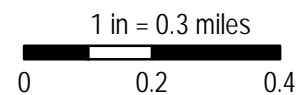
Rail Routes

San Onofre Nuclear Generating Station to Hazen Map - If nuclear waste were to be shipped from the site via rail, the BNSF would pull the loaded cars from the San Onofre Facility northward through San Clemente, San Juan Capistrano, Irvine and Santa Ana. At Orange, the route diverts to the north and east at Atwood into San Bernardino. The BNSF would interchange this traffic to the UP in Colton, and the material would be part of a train departing UP's West Colton Yard. It would move northward over Cajon Pass towards Mojave and over Tehachapi Pass into Bakersfield. This route then traverses the San Joaquin Valley to Stockton, through Sacramento, over Donner Pass, and onward to Hazen.

San Onofre Nuclear Generating Station to Caliente Map - The BNSF movements above would be replicated here and once the interchange to the UP was complete at San Bernardino, the UP would move the loads in a train from the West Colton Yards over Cajon Pass through Barstow thence northeast through Yermo and Las Vegas to Caliente.

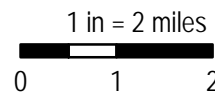


SAN ONOFRE NUCLEAR GENERATING STATION, CA





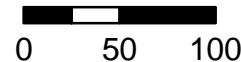
SAN ONOFRE NUCLEAR GENERATING STATION, CA





SAN ONOFRE NUCLEAR GENERATING STATION TO HAZEN

1 in = 100 miles





Legend

— Probable Routes*

Railroads

- Burlington Northern Railway Company
- Union Pacific Railroad
- All Other Railroad Companies

Nuclear Fuel Locations' Status

- ★ Canceled
- ★ Closed
- ★ Open

* Represents the most "probable" direct route. Actual route to be determined through multiple agencies and stakeholders, N.I.C.