Figure Withheld Under 10 CFR 2.390

FSAR UPDATE	
DIABLO CANYON ISFSI	
FIGURE 2.6-1	
LOCATION AND BOUNDARIES	OF
GEOLOGIC STUDY AREAS	;



Northeast view of Diablo Canyon Power Plant and the ISFSI and CTF sites. The ISFSI is at the base of the slope to the right of the raw water reservoir. The CTF is directly southwest of the reservoirs. The extent of the 1971 borrow area excavation is indicated by the rocky area on the slope above the reservoir. The power plant and adjacent facilities are constructed on a marine terrace that is covered by Quaternary fan deposits. Photo roll WDP-1.

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FIGURE 2.6-2 DIABLO CANYON POWER PLANT AND THE ISFSI AND CTF SITES

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FIGURE 2.6-3 SOUTHWARD VIEW OF THE ISFSI AND CTF SITES AND TRANSPORT ROUTE





EB IH ED NR Average fault trend (338)used for ground motion analyses



Photo of Obispo Formation dolomite and sandstone strata exposed on the hillslope above the transport route on Reservoir Road. The ISFSI site is to the right of the raw water reservoir. Bedding dips into the hillslope on the west limb of the regional Pismo syncline and extends beneath the power block (off photo to lower left). A small parasitic syncline is manifest as the U-shaped strata directly below the ridge crest in the middle of the photo. Several debris-flow chutes (\downarrow) form the gullies on the slope above Reservoir Road. Photo roll JLB-2.

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FIGURE 2.6-5 OBISPO FORMATION DOLOMITE AND SANDSTONE ON HILLSLOPE ABOVE RESERVOIR ROAD



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C.A. Hall Jr., 1973, Geolgoic map of the Morro Bay South and Port San Luis Quadranges, San Luis Obispo County, California, U.S. Geological Survey Miscellaneous Field Studies Map MF-511, scale 1:24,000.

Investigation I-1097.

LANDSLIDES IN THE PLANT SITE AREA GEOLOGIC MAP OF BEDROCK AND DIABLO CANYON ISFSI FSAR UPDATE FIGURE 2.6-6

Note: Except for small faults at and near the ISFS I site, only major geologic structures and bedrock units, and large lands lides, are shown.

~•

68 S pring

S trike and dip of fault

H

S teep sea cliff

Axis of syncline, plunge indicated by larger arrow, dashed where approximately located

Axis of monocline, plunge indicated by larger arrow, dashed where approximately located

†₋₁ ₽

Generalized strike and dip of bedding

Parasitic folds on south limb of Pismo syncline

Axis of anticline, plunge indicated by larger arrow, dashed where approximately located

500-kV tower

Cut or fill slope

.--?

Large landslides. Arrows indicate direction of movement, hachures define head scarp. (S maller landslides are not shown)

Tor Member Tor - Volcanic rock, zeolitized and silicified tuff

Tof_c Unit c - shale, claystone and siltstone, thin to medium bedding extensively sheared

Geologic contact, solid line where well-defined, dashed where approximate, queried and/or dotted where uncertain

Tertiary

 Tofb
 Unit b - dolomite, dolomitic siltstone, dolomitic sandstone and sandstone, medium to very thick bedding

(lower and middle Miocene) - bedded dolomitic sandstone, siltstone, and claystone with tuffaceous beds, locally calcareous, some chert and volcanic rock lenses

Obis po Formation

Tof_a Unit a - diatomaceous silts tone and tuffaceous sandstone; yellow-

brown to tan; thick to massive bedding

Member Tof - S and stone and dolomite

Tvr Volcanic rock (middle Miocene), diabase intrusive sills and dikes

Qls Quaternary landslide deposits

af Artificial fill (engineered), only major fills shown

Explanation



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DIABLO CANYON ISFSI FSAR UPDATE **FIGURE 2.6-8**

Geology not shown in paved area and reservoir area

I geometry is based on PG&E Enercon Drwg. Base map No. PGE-009-sk-001 dated 9/27/01. 290 5'

Buried shoreline angle of marine terrace wave-cut platform, number and elevation indicated

Q5 ^{™™} ^{₩™} ^{™™}

Geologic cross section, arrows indicate end of line is off the map area

Boring for ISFSI, number indicated (initial number is year drilled, e.g. 01 was year drilled, e.g drilled in 2001)

Geologic contact, solid line where well-defined, dashed where approximate

Cutslope above and fill prism west of ISFSI pads

Axis of anticline, larger arrow shows plunge, dashed

where approximate

Axis of syncline, larger arrow shows plunge, dashed where approximate

Axis of monocline, larger

arrow shows plunge, dashed where approximate

1 [

1











Footprint of 500-kV tower

Discontinuity survey line

bed, thickness indicated

, secondary faults

exposed in trench

sense of displacement, U-upthrown, D-downthrown

riable sandstone of unit Tofb-2. These rocks typically are of low hardness re very weak to weak, and occur as discontinuous zones where veathering and/or alteration has been concentrated. Inferred lateral xtent of friable zones is schematic.

e and dip of bedding

T-4

Exploratory trench, number indicated

Minor fault, dip indicated, dashed where inferred, queried where uncertain, arrows show relative

DS-1

in bulldozer cut

arine terrace deposit (overlain by Qc)

Explanation

Obispo Formation (Nover and middle Miocene)

DOLOMITE UNIT

Dolomite, clayey dolomite, dolomitic siltstone to fine-grained dolomitic sandstone, and limestone. The unit contains occasional discontinuous to continuous (tens to hundreds of feet) clay beds that are generally 1/32-to 1/2-inch thick, but locally are thicker. Rocks in this unit are moderately to slightly weathered, but locally hard to hard, moderately to slightly weathered. ittle and typically medium strong.

-riable dolomite and dolomitic siltstone of unit Tofb-1. These rocks typically nave low hardness, are very weak to weak, and occur as discontinuous zones where weathering and/or alteration has been concentrated. Inferred ateral extent of friable zones is schematic.

SANDS TONE UNIT



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FSAR UPDATE DIABLO CANYON ISFSI FIGURE 2.6-9 EXPLANATION FOR CROSS SECTIONS



Matchline to above



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Southward view of the ISFSI site, above the raw water reservoir. The 1971 borrow area cutslope is indicated by areas of bedrock exposure and brown grass. Trenches excavated for the ISFSI investigations are shown (trenches backfilled in A pril 2001). Trench T-16 is located to the left of the photo. Photo roll A R 3-25.

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FIGURE 2.6-12 SOUTHWARD VIEW OF ISFSI STUDY AREA