



**Consumers
Power
Company**

David J VandeWalle
Nuclear Licensing Administrator

COPY

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Dennis M Crutchfield, Chief
Operating Reactors Branch No 5
Nuclear Reactor Regulation
US Nuclear Regulatory Commission
Washington, DC 20555

DOCKET 50-155 - LICENSE DPR-6 -
BIG ROCK POINT PLANT - SEP TOPIC
III-2, WIND AND TORNADO LOADINGS

Attached please find structural layouts and technical documents pertaining to SEP Topic III-2 for the Big Rock Point Plant. The attached references are being made available to satisfy a recent telephone request made by Mr Drew Persinko of the NRC's Systematic Evaluation Program Branch in support of the staff's review of Consumers Power Company August 3, 1982 submittal.

Please note that because of the considerable volume of materials provided, and, in order to expedite shipment, Consumers Power Company is transmitting these references to Mr Persinko only.

David J VandeWalle (Signed)

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Nuclear Licensing Administrator

CC List of attachments
Administrator, Region III, USNRC
NRC Resident Inspector-Big Rock Point

Attachment

A035

oc0882-0021a142

8209020295 820830
PDR ADOCK 05000155
P PDR

BIG ROCK POINT PLANT

SEP TOPIC III-2 (WIND AND TORNADO LOADINGS)

List of Drawings & Reports

1. Structural Design of the 130'0 Spherical containment vessel for the Big Rock Point Plant (Bechtel Job No. 3159 CB&I Co Contract 8-0580).
2. Chapter III: Formulas for the Buckling of Shell-Like Structures (by K P Buchert, 1973 Bechtel Corp).
3. Referenced Design Drawings for Analysis of Screenhouse/Diesel/Generator/ Discharge Structure

Structural Framing:

1. 3159-C-40 Rev 2 Screen Well - Pump House & Discharge Structure, Superstructure I
2. 3159-C-41 Rev 1 Screen Well - Pump House & Discharge Structure, Superstructure II

Roof Decking:

1. 3159-C-40 Rev 2 Screen Well - Pump House & Discharge Structure, Superstructure I
(Information from notes on above drawing as well as field walk down)

Reactor Building

No drawings used

Screenhouse/Discharge Structure

1. 3159-C-40 Rev 2 Superstructure I
2. 3159-C-41 Rev 1 Superstructure II
3. 3159-C-35 Rev D Substructure - Plans
4. 3159-C-36 Rev 3 Sections & Details I
5. 3159-C-37 Rev 4 Sections & Details II

Emergency Diesel Generator Room

See Screenhouse/Discharge Structure

240 Foot Reinforced Concrete Stack

1. 3159-C-315 Rev C 240 Ft Concrete Chimney
2. 3159-C-316 Rev B 240 Ft Concrete Chimney Details

Condensate Water Storage Tank/Demineralized Water Storage Tank

No Drawings Used

Solid Radwaste Storage Vaults

1. 3159-C-301 Rev 2 Plan, Sections and Details

Turbine Building

1. 3159-C-201 Rev 6 Structural Steel Column Plan
2. 3159-C-202 Rev 5 Structural Steel Roof Plan
3. 3159-C-204 Rev 2 Structural Steel Sections Sheet-1
4. 3159-C-205 Rev 5 Structural Steel Sections Sheet-2
5. 3159-C-206 Rev 6 Structural Steel Elevations Sheet-1
6. 3159-C-251 Rev B Foundation Plan
7. 3159-C-252 Rev 5 Foundation Details - Sheet 1
8. 3159-C-254 Rev B Foundation Details - Sheet 2
9. W Biddle Walker Co - Walcon Sheet 1 of 2-Roof Decking Plan
Industrial Building Products
Contract No 5497-3540-M
10. Elwin G Smith & Co Inc Square Rib Siding -
Contract No 5372-T-60-C.O.#4 Aluminum - Standard Details
No I-08
11. E G Smith Contract No Siding Layout & Details
5372-T-60; No A-1 Siding Layout & Details
No A-2

Service Building

1. Original Service Building - See Turbine Building Drawings
2. Catalytic Inc No A-18002 Service Building Addition -
CPC 0740G11026 Rev 3 Structural Steel Elevations,
Sections & Details
3. 3159-C-269 Rev 1 Control Room & Counting Room
4. 3159-A-203 Rev J Service & Turbine Building
Third Floor Plan

Turbine Building Passageway

- | | |
|--|--|
| 1. Suntac Nuclear Corp No A-18510
Rev E, CPC -740G11010 | Wall Opening & Support
Details |
| 2. Suntac Nuclear Corp No A-18511
Rev F, CPC-0740G11011 | Wall Opening - Shield Walls
& Roof Plan Details |
| 3. Suntac Nuclear Corp No A-18512
Rev D, CPC-0740G11012 | Wall Opening, Blowout
Panel |
| 4. 3159-C-222 Rev 4 | Structural Steel I |
| 5. 3159-C-223 Rev 3 | Structural Steel II |
| 6. 3159-C-224 Rev 4 | Concrete |

Fuel Cask Loading Dock/Core Spray Equipment Room

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|---------------------|--------------------------|
| 1. 3159-C-320 Rev 2 | Substructure - Sheet 1 |
| 2. 3159-C-321 Rev 2 | Substructure - Sheet 2 |
| 3. 3159-C-322 Rev 4 | Superstructure |
| 4. 3159-C-323 Rev 2 | Superstructure - Sheet 2 |