Table NCA-3200-2
Document Distribution for Division 2 Construction

<table>
<thead>
<tr>
<th>Document</th>
<th>Prepared by</th>
<th>Reviewed by</th>
<th>Certified by</th>
<th>Approved by</th>
<th>Provided to</th>
<th>Available on Request</th>
</tr>
</thead>
<tbody>
<tr>
<td>Design Specification (NCA-3211.19)</td>
<td>O</td>
<td>O</td>
<td>O</td>
<td>...</td>
<td>D, C, I, J</td>
<td>...</td>
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<tr>
<td>Construction Specification (NCA-3211.28)</td>
<td>D</td>
<td>O</td>
<td>D</td>
<td>0</td>
<td>C, F, M, I J</td>
<td>I, J</td>
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<tr>
<td>Design Drawings (NCA-3211.28)</td>
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<td>D</td>
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<td>O, C, F, M, I</td>
<td>I, J</td>
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<tr>
<td>Design Report (NCA-3211.29)</td>
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<tr>
<td>Construction procedures [Note (1)] (NCA-3211.31)</td>
<td>C, F</td>
<td>D</td>
<td>...</td>
<td>D</td>
<td>D, O, I</td>
<td>I, J</td>
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<tr>
<td>Certified Material Test Reports or Certificates of Compliance [Note (1)] (CC-2130)</td>
<td>M</td>
<td>C, F</td>
<td>M</td>
<td>...</td>
<td>C, F, O</td>
<td>I, J, D</td>
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<tr>
<td>Shop and field drawings [Note (1)] (NCA-3211.33)</td>
<td>C, F</td>
<td>D</td>
<td>...</td>
<td>D</td>
<td>C, F, I</td>
<td>I</td>
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<tr>
<td>Construction Report (NCA-3211.23, NCA-3211.31)</td>
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<td>O, D</td>
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<tr>
<td>Data Report Form C-1 (NCA-8410)</td>
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<td>I, J</td>
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<tr>
<td>Data Report Form N-2 (NCA-8410)</td>
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<td>...</td>
<td>C</td>
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<tr>
<td>Data Report Form N-3 (NCA-8420)</td>
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<td>...</td>
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<td>I, J</td>
</tr>
</tbody>
</table>

Legend:
- O  — Owner or his designee
- D  — Designer
- C  — Constructor
- F  — Fabricator
- M  — Material manufacturer
- I  — Inspector
- J  — Enforcement authority

NOTE: (1) Information provided to the indicated participants when required to satisfy their designated responsibilities under this Section. Other information provided only by specific arrangement with the Owner. Participants are required to furnish only such information as is necessary to permit the recipient to perform his duties in conformance with this Section. Other information may be furnished at the discretion of the responsible parties.

**NCA-3211.19 Provisions of the Design Specifications**

(a) **Provision and Correlation.** It is the responsibility of the Owner to provide, or cause to be provided, Design Specifications for components, supports, and appurtenances. The Owner, either directly or through their designee, shall be responsible for the proper correlation of all Design Specifications. Separate Design Specifications are not required for parts, piping subassemblies, appurtenances, or supports when they are included in the Design Specification for a component (NCA-1210). However, the applicable data from the component Design Specification (Division 1) or the Construction Specification and Design Drawings (Division 2) shall be provided in sufficient documented detail to form the basis for fabrication in accordance with this Section.

(b) **Contents of Design Specifications**

(1) The Design Specifications shall contain sufficient detail to provide a complete basis for Division 1 construction or Division 2 design in accordance with this Section. Such requirements shall not result in construction that fails to conform with the rules of this Section. All Design Specifications shall include (a) through (h) below.

(a) the functions and boundaries of the items covered [NCA-3211.19(d)]

(b) the design requirements [NCA-2110(a), NCA-2110(b), and NCA-2140] including all required overpressure protection requirements [NCA-3211.21]

(c) the environmental conditions that would have an effect on material deterioration, including radiation

(d) the Code classification of the items covered (Article NCA-2000)

(e) material requirements including impact test requirements

(f) additional fracture mechanics data for base metal, weld metal, and heat-affected zone required to use Section III Appendices

(-1) Nonmandatory Appendix G, Figure G-2210-1 in accordance with Section III Appendices

(-2) Nonmandatory Appendix G, G-2110(b), when the methods of Section III Appendices

(-3) Nonmandatory Appendix G are used to provide protection against nonductile fracture for materials that have specified minimum yield strengths at room temperature greater than 50.0 ksi (345 MPa) but not exceeding 90.0 ksi (620 MPa)

(-4) where these materials of higher yield strengths are to be used in conditions where radiation may affect the material properties, the effect of radiation

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on the $K_c$ curve shall be determined for the material prior
to its use in construction

\(-g\) when operability of a component is a require-
ment, the Design Specification shall make reference to
other appropriate documents that specify the operating
requirements

\(-h\) the effective Code Edition, Addenda, and Code
Cases to be used for construction

(2) A Design Specification shall be provided for
each concrete containment serving in a single power-
generating unit or for multiple concrete containments
at the same site. In addition to the requirements of \(a\)
above, the Design Specifications for Division 2 items
shall include \(-a\) through \(-g\) below.

\(-a\) design life
\(-b\) corrosion effects
\(-c\) structural acceptance testing requirements
(Division 2, Article CC-6000)
\(-d\) shielding requirements
\(-e\) construction surveillance required by the
Designer

\(-f\) foundation type and allowable loading, if applicable
(NCA-3211.18)

\(-g\) loads from internal structures (NCA-2132)

(3) The Design Specification shall identify those
components and/or parts that require a preservice exami-
nation and shall include the following:

\(-a\) examination

\(-1\) Edition and Addenda of Section XI to be
used

\(-2\) category and method

\(-3\) qualifications of personnel, procedures,
and equipment

\(-b\) welds

\(-1\) surface conditioning requirements

\(-2\) identification/marking system to be used

(c) Boundaries of Jurisdiction

(1) In order to define the boundaries of components
with respect to adjacent components, intervening
elements, and other structures, the Design Specifications
shall include

\(-a\) the locations of each such boundary

\(-b\) the forces, moments, strains, or displace-
ments that are imposed at each such boundary

\(-c\) the structural characteristics of the attached
components or structures, whether or not they are within
this Section’s jurisdiction when such components or struc-
tures provide constraints to the movement of components
or appurtenances

\(-d\) when the foundation support is constructed
as an integral part of the concrete containment, it shall
be included within this Section’s Division 2 jurisdiction
to the extent required by NCA-2132

(2) Definition of Division 1 Boundaries.

\(-a\) The boundaries for Class 1 components are
given in NB-1130.

\(-b\) The boundaries for Class 2 or Class 3 compo-
nents are given in NCD-1130.

\(-c\) The boundaries for metal containment vessels
are given in NE-1132.

\(-d\) The boundaries for supports are given in
NF-1130.

\(-e\) The boundaries for core support structures
are given in NG-1130.

(3) Definition of Division 2 Boundaries. The Design
Specification shall define the boundaries of Division 2
in accordance with the limits defined in CC-1140; it
shall also show the external boundaries of the component
with respect to its supporting structures. Where the
support is constructed as an integral part of the concrete
containment, it shall be included within the jurisdiction
of Division 2 to the extent required by CC-1140. The Design
Specification shall include the specific dimensional
location of each boundary, including the boundaries for parts
and appurtenances designated to meet the requirements
of Division 1.

\(-d\) Certification of the Design Specifications. The Design
Specifications shall be certified to be correct and complete
and to be in compliance with the requirements of
NCA-3211.19 by one or more Certifying Engineers, on
behalf of the Owner or their designee. The Certifying Engi-
neers shall be competent in the applicable field of design
and related nuclear facility requirements and qualified by
the Owner or their designee in accordance with the re-
quirements of Section III Appendices, Mandatory Appen-
dix XXIII. These Certifying Engineers are not required to be
independent of the organization preparing the Design
Specifications. Document distribution for Division 2
construction is shown in Table NCA-3200-2.

(6) Filing of Design Specifications

(1) The Design Specifications in their entirety shall
become a part of the governing design and
shall be made available to the Inspector at the manufac-
turing site before fabrication begins, and a copy shall be
filed at the location of the installation and made available
to the regulatory and enforcement authorities having
jurisdiction over the nuclear facility before components
or appurtenances are placed in service. In the case of parts,
piping subassemblies, appurtenances, and supports, the
Design Specifications need not be made available to the
Inspector at the fabrication site [NCA-3211.19(a)].
However, the applicable data from the Design Specifi-
cations that form the basis for fabrication shall be made
available to the Inspector at the fabrication site. Document
distribution for Division 2 construction is shown in Table
NCA-3200-2.

(2) For pumps and valves 4 in. nominal pipe size (DN
100) and less, for linear supports used as mechanical
snubbers, and for standard supports, the Certificate
Holder may provide their own Design Specification in
accordance with NCA-3211.19(b) as a basis for