

**SOUTHERN COMPANY GENERATION – TECHNICAL AND PROJECT SOLUTIONS**

**TECHNICAL SPECIFICATIONS SECTION 01 62 00**

**FOR**

**FOREIGN MATERIALS FOR CIVIL, MECHANICAL, and ELECTRICAL EQUIPMENT**

**FOR**

**SOUTHERN COMPANY**

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**REVIEWED BY:**

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<b>No.</b>	<b>Description</b>	<b>Prepared By</b>	<b>Reviewed By</b>	<b>Approved By</b>	<b>Date</b>
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## **1.0 SCOPE**

This specification covers the use of foreign materials in Civil, Mechanical, and Electrical items and equipment.

Failure of the supplier to comply with the requirements of this specification will result in commercial penalties, up to and including non-payment of invoices.

## **2.0 DEFINITIONS**

Domestic: The United States or Canada.

Foreign: A country external to the United States or Canada.

Country of origin(s): The country where the material was melted, cast, forged, rolled, fabricated, or manufactured. Material and equipment may have multiple countries of origin such as material was cast in location X, forged in location Y, and then fabricated in location Z.

Foreign material: Any equipment, material, or component with any foreign country of origin(s).

Purchaser: Southern Company, its subsidiaries, and assignees.

Supplier: Any manufacturer or supplier contractually bound to the Purchaser for providing items or materials, including subcontractors, sub-suppliers, and affiliated manufacturers.

## **3.0 APPLICABLE DOCUMENTS**

Inquiry or contract documents may reference codes and standards not listed below.

Items shall be designed to conform with the applicable codes and standards listed below as well as any additional codes or standards listed in the inquiry or contract documents. If the applicable code or standard references additional codes and standards for the item, the referenced codes and standards will apply as well.

AISC 325 Manual of Steel Construction (applicable edition per governing building code)

ACI 318 Building Code Requirements for Structural Concrete (applicable edition per governing building code)

ASME Boiler and Pressure Vessel Code

ASME Code for Pressure Piping B31.1 Power Piping

ASME Code for Pressure Piping B31.3 Process Piping

American Society for Testing and Materials

#### **4.0 CIVIL DESIGN AND FABRICATION REQUIREMENTS**

Foreign material shall not be used without prior written acceptance from the Purchaser prior to award per section 7.0 Purchaser's Acceptance.

Structural steel, plate, structural bolting systems, anchor bolts, or rebar whose country of origin(s) includes China, North Korea, or Malaysia will not be allowed.

All material shapes and dimensions shall conform to AISC 325 Manual of Steel Construction referenced in section 3.0 Applicable Documents.

#### **5.0 MECHANICAL DESIGN AND FABRICATION REQUIREMENTS**

Foreign material shall not be used without prior written acceptance from the Purchaser prior to award per section 7.0 Purchaser's Acceptance.

Pipe, fittings, flanges, expansion joints, pipe supports, valves, tubing, bolted or welded connections, plates, and/or filler material manufactured in China, North Korea, or Malaysia will not be allowed.

Grade 91/92 foreign material will not be allowed from China, North Korea, or Malaysia.

Hydro turbine foreign material castings will not be allowed from China, North Korea, or Malaysia.

Valve castings, castings, forgings, equipment components, or other items manufactured in foreign countries of origin require the Purchaser's acceptance prior to award per section 7.0.

#### **6.0 ELECTRICAL DESIGN AND FABRICATION REQUIREMENTS**

Foreign material shall not be used without prior written acceptance from the Purchaser prior to award per section 7.0 Purchaser's Acceptance.

Power transformers, large motors, generators, and rotating machinery >1,000 Volts manufactured in China, North Korea, or Malaysia will not be allowed. Some Purchaser's electrical specifications may allow manufacturing only in Purchaser's specified countries.

Power transformers, large motors, generators, and rotating machinery >1,000 Volts manufactured in foreign countries of origin require the Purchaser's acceptance prior to award per section 7.0.

#### **7.0 PURCHASER'S ACCEPTANCE**

The Supplier shall submit the following information to the Purchaser when foreign materials are proposed for use. This information shall be listed in the Supplier's proposal or requested in writing to the Purchaser prior to award.

- Name of manufacturer(s) and physical address(s) of the supplier(s) who is/are supplying the foreign material(s)
- Country(s) of melting, casting, forging, rolling, fabrication, and/or manufacturing
- Proposed quality control plan for demonstrating acceptable properties

In most cases, the Purchaser will not accept Material Test Reports (MTR) as a quality control plan. MTR submittal would be part of the quality control plan, but additional controls would typically be needed.

Acceptance of the supplier's quality control plan may require the Purchaser to perform shop survey(s) of the manufacturing location(s) from which the foreign material is procured.

Note: Performance of the shop survey does not guarantee acceptance of the foreign material supplier.

Any costs incurred by the Purchaser for evaluation, prequalification, testing, and/or quality assurance of the proposed foreign supplier or material shall be used as an evaluation factor (and/or passed on to the Supplier at the Purchaser's discretion).

If a proposed Supplier of foreign material was not disclosed in the proposal, or if the Supplier's or their Subsupplier's proposed quality program does not meet the requirements stated in the contract documents; the Supplier shall be required to develop and execute a plan to meet the requirements of the contractual agreements and shall be responsible for the cost associated with any changes to their plan.

## **8.0 QUALITY CONTROL PLAN AND TESTING**

The Supplier shall be solely responsible for implementing a quality control plan and demonstrating that materials meet the requirements of specified codes and standards. The Purchaser reserves the right to review, evaluate, inspect, or reject (at any time) materials that do not meet the contract document requirements.

The Purchaser shall be provided with Material Test Reports (MTR) compliant with EN10204 type 3.1 or 3.2 certificate, metallography, mechanical testing, chemical analysis, and so forth to indicate compliance with applicable codes and standards referenced in the Purchaser's drawings and specifications. The Purchaser reserves the right to request sampling if needed for complete evaluation of the material in question.

The Supplier's proposed quality control plan shall detail the processes being followed, and testing performed, to ensure Purchaser receives material that fully complies with the contract documents and all applicable codes and standards.