

US Safety Related

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TOSHIBA CORPORATION
NUCLEAR ENERGY SYSTEMS & SERVICES DIV.

NRW-FPGA-Based PRM System Qualification Project

Document Title

Acceptance Plan for Test Specimen Modules

CUSTOMER NAME	None
PROJECT NAME	NRW-FPGA-Based PRM System Qualification Project
ITEM NAME	PRM Equipment
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July, 19, 2007	Monitoring System Engineering Group	<i>M. C. [Signature]</i> Jul. 19, 2007	<i>G. [Signature]</i> Jul. 19, 2007	<i>J. Mizoguchi</i> July, 18, 2007	RS-5123273

TOSHIBA CORPORATION Nuclear Energy Systems & Services Division

Acceptance Plan for Commercial Grade Dedication 商用品採用受領計画書	Sheet (1/2)	
	Document No. FPG-PLN-C51-0025	Rev.1
	Plan Date: July 18, 2007	

The purpose of this form is to document critical characteristics for acceptance of commercial grade items and services. This form should indicate the acceptance criteria and how each CCA will be verified (i.e., acceptance method), and include references to additional documents or procedures as needed. (本書式使用の目的は商用品及び役務の受領に対する決定的特性(CCA)を図書化するためである。本書式はCCAの可否基準及びその検証方法(受領方法)を示し、また、必要な追加図書または要領も含まなければならない。)

Acceptance Method 受領方法	Required Procedure 要求要領	Additional Documentation 追加図書	
Method 1 - Special tests and inspections 方法 1-特別試験及び検査	AS-200A111 or AS-200A112	Test/Inspection Plan, Test/Inspection Procedure, Test/Inspection Record 試験/検査計画, 試験/検査要領, 試験/検査記録	
Method 2 - Commercial grade survey 方法 2-商用サーベイ	AS-300A002	Source verification Report 立会検査報告書	
Method 3 - Source verification 方法 3-立会検査	AS-200A111 or AS-200A112	Surveillance Plan, Source verification Report サーベイ計画, 立会検査報告書	
Method 4 - Supplier/item performance record 方法 4-供給者実績/製品性能記録	AS-200A111	Supplier/Item Performance Record 供給者実績/製品性能記録	
Critical characteristic for acceptance (CCA) 受領に対するCCA	Acceptance criteria including tolerances 許容誤差を含む受領基準	Acceptance method(s) (Note1) 受領方法(注1)	Additional documentation prepared by Toshiba (NED) to support the acceptance method (note 2) (原子力)作成受領方法サポート追加図書(注2)
Modules			
Identification of Modules -- Module Model Numbers -- Revision Number -- Serial Number	LPRM Module (HNS013) X27 AO Module (HNS515) X7 AO Module (HNS516) X8 AO Module (HNS517) X5 AO Module (HNS518) X11	Method 3 Source Verification	<ul style="list-style-type: none"> Source Verification Check Sheet and Record Source Verification Report
Module Design			
LPRM Module Mode Switch Operation	Change of state of signal when mode is changed (FPG-RQS-C51-0001 Equipment Requirement Specification of FPGA based Units)	Method 3 Source Verification	<ul style="list-style-type: none"> Source Verification Check Sheet and Record Source Verification Report
Connector Type of all modules	AO Module - Type of connector: 38 pins [] ^{a,c} Connector	Method 3 Source Verification	<ul style="list-style-type: none"> Source Verification Check Sheet and Record Source Verification Report
FPGA type	[] ^{a,c} FPGA, models [] ^{a,c} (FPG-DRT-C51-0005 Critical Digital Review Report of NICSD)	Method 3 Source Verification	<ul style="list-style-type: none"> Source Verification Check Sheet and Record Source Verification Report

(Note 1): Acceptance method shall include one or more of the above "Acceptance Method" and shall be described the first column of each method (受領方法には上記から選択し、空欄に記入すること。)

(Note 2): Required additional documentations are noted the above "Additional Documentation" for each method chosen. (要求された追加図書は選択された方法毎に追加図書を記入すること。)

Acceptance Plan for Commercial Grade Dedication 商用品採用受領計画書		Sheet (2/2)	
		Document No. FPG-PLN-C51-0025	Rev.1
		Plan Date: July 18, 2007	
Critical characteristic for acceptance (CCA) 受領に対する CCA	Acceptance criteria including tolerances 許容誤差を含む受領基準	Acceptance method(s) (Note1) 受領方法(注1)	Additional documentation prepared by Toshiba (NED) to support the acceptance method (note 2) (原子力)作成受領方法支持追加図書(注2)
ROM type	EEPROM: equivalent to ^{a,c} - Any memory used for field modifiable constants shall be capable of at least 100,000 write cycles. (FPG-RQS-C51-0001 Equipment Requirement Specification of FPGA based Units)	Method 3 Source Verification	<ul style="list-style-type: none"> Source Verification Check Sheet and Record Source Verification Report