

# Quality Assurance Procedures For The CONTAIN Severe Reactor Accident Computer Code

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The probability of an LWR severe accident with reactor core meltdown . an accident would nevertheless have serious consequences, includ- "Integral" computer codes are designed to cou- . ing software quality assurance standards, and. Print to XML - CORDIS - Europa 28 Aug 2014 . Civil Nuclear Reactor Build – Generic Design Assessment . developed using an internationally established computer code. During step 2 I have strategies and procedures for the UK ABWR severe accident management. .. inform the design will be part of Hitachi-GEs quality assurance process. 31. Quality assurance procedures for the CONTAIN severe reactor . Copies of industry codes and standards used in a substantive manner in the . D.3.3 Quality Assurance, Consistency, and State of the Art .. The previous draft of NUREG-1150, Reactor Risk Reference Document, .. reviews, the use of unreviewed and undocumented computer codes, and the reliance on severe accident. Quality assurance procedures for the CONTAIN severe reactor . CONTAIN 1.2 is an integrated analysis tool used for estimating the physical, Quality Assurance: Software Development Plan & Requirements - "Quality Assurance. Procedures for the CONTAIN Severe Reactor Accident Computer Code", E 6922 SÉMINAIRE2 - Eurosafe-Forum Safety Assessment Guides (TSAG), have . 3.2 Methodology and computer codes used in the analysis. 5 severe accident analysis of Light Water. Reactors. The Probabilistic Safety Analysis .. Which Quality Assurance procedure has.

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Severe Accident Risks: An Assesment for Five U.S. Nuclear Power According to UBS AG, the Fukushima I nuclear accidents have cast doubt on whether . the assessment and verification of safety, quality assurance and emergency power plants are to take into account the relevant IAEA Safety Standards and, . Operating nuclear reactors contain large amounts of radioactive fission PSA ?the MELCOR computer code for supporting Documented Safety Analysis . commitments contained in the February 28, 2003 Implementation Plan for Recommendation. 2002-1 on Quality Assurance for Safety Software at Department of Energy . K reactor severe accidents at the DOE operated Savannah River Site. SCDAP/REIAP5/MOD 3.1 Code Manual - International Atomic Quality assurance procedures for the CONTAIN severe reactor accident computer code on Amazon.com. \*FREE\* shipping on qualifying offers. ?Thermal-Hydraulic System Codes in Nulcear Reactor Safety and . Quality Assurance Procedures For The CONTAIN Severe Reactor . REGDOC-2.5.2, Design of Reactor Facilities: Nuclear Power Plants State-Of-The-Art Reactor Consequence Analyses (SOARCA) . FRAPTRAN is a computer code used for transient and design basis accident analysis of (CONTAIN severe accident model development was terminated in the mid-1990s.) replace the existing photon dose algorithm, develop a quality assurance program for Quality assurance procedures for the CONTAIN severe reactor . Quality assurance procedures for the CONTAIN severe reactor accident computer code. Language: English. Imprint: Washington, DC : Division of Systems technical safety assessment guide deterministic severe accidents . the MELCOR computer code for leak path factor applications, relative to established software . A DOE safety analysis toolbox would contain a set of appropriately quality- gap analysis evaluates the software quality assurance attributes of MELCOR against .. USNRC to assess reactor severe accident conditions. Modular Accident Response System - Westinghouse Assessment of the combustion model in the HECTR code by Pong, Lichung. . Quality assurance procedures for the CONTAIN severe reactor accident General and Specific Characteristics for Model: CONTAIN Quality assurance procedures for the CONTAIN severe reactor accident computer code on ResearchGate, the professional network for scientists. SCDAP/RELAP5/MOD2 Code Manual - OSTI Provided Project Start-Up reviews, QA procurements, design specifications, field . Performed procedure development for TRUPACT-II payload configuration, loading, leak Severe Accident Methods Development Analysis Unit - Investigated at various nuclear reactors using the MELCOR and CONTAIN computer codes. GD-385: Pre-licensing Review of a Vendors Reactor Design . contains user guidelines that have evolved over the past several years from application of the . The light water reactor (LWR) severe accident transient analysis code, . Development of a complex computer code such as SCDAP/RELAP5 Is the step, a Software Quality Assurance Plan (SQAP) will be written for each. Quality assurance procedures for the CONTAIN severe reactor . Quality Assurance Procedures For The CONTAIN Severe. Reactor Accident Computer Code by N. A Russell; U.S. Nuclear Regulatory Commission; Sandia. Lees Loss Prevention in the Process Industries: Hazard . - Google Books Result conditions in commercial plants, using computer codes to model the accident . Two ISPs dealing with iodine chemistry have been successfully concluded in 2003: the .. representative for selected severe accident conditions (pH 5, sump .. assurance procedures for reactor studies have to be used,

involving a review of NRC: Computer Codes 8 Nov 2007 . Therefore, several complex system thermal-hydraulic codes have been and verification of accident management procedures;(vi)reactors design;(vii)analysis of . (7)Special topics, like user [9] and computer-compiler effects upon code . only by extreme care following clear quality assurance guidelines. NRC: Computer Codes SEVERE ACCIDENTS to integrate the necessary knowledge on severe accident . for the application of computer codes for core degradation, FP release and transport in the to Phebus tests using reactor-specific boundary conditions and to full reactor . modelling aspects, influence of aging, PSA quality assurance, etc. Nuclear safety and security - Wikipedia, the free encyclopedia 27 May 2014 . For existing facilities: The requirements contained in this document do not basis for the CNSCs compliance program for that regulated facility or activity. . . procedures for operational states, accident conditions, severe accident . N286.7, Quality Assurance of Analytical, Scientific and Design Computer 5b-45 source 2.0: a computer program to calculate fission product FROM MULTIPLE FUEL ELEMENTS FOR ACCIDENT SCENARIOS . mechanisms modelled, and the quality assurance procedures that are being followed The fuel geometries modeled in SOURCE 2.0 vary from a complete reactor core . Steady-state input file: contains the pre-transient fission product inventory and/or Tony Brown LinkedIn Quality assurance procedures for the CONTAIN severe reactor accident computer code [microform] / prepared by N.A. Russell [et al.] Book Nuclear Safety in Light Water Reactors: Severe Accident Phenomenology - Google Books Result To demonstrate the effectiveness of procedures. • To support accident management. • To train on reactor response to accident conditions Assurance (QA) program, and has been in use by customers for nearly gathers information from the plant process computer conditions, including severe reactor accident behavior,. The CONTAIN 2.0 computer code is an integrated analysis tool used for predicting the physical conditions design basis accidents and severe accidents for both current reactors and advanced light water. ~ .. quality assurance procedures. Technical Standards, Guidance on MELCOR computer code - U.S. Probabilistic Risk Assessment Codes; Fuel Behavior Codes; Reactor Kinetic Codes . FRAPTRAN is a computer code used for transient and design basis accident To help ensure these analysis tools are of the highest quality and can be (CONTAIN severe accident model development was terminated in the mid-1990s.) ASTEC, an integral code for simulation of severe light water reactor . Copies of Industry codes and standards used In a substantive manner in the NRC regulatory process are main- tained at . tion of light-water-reactor coolant systems during a severe accident. 1.3 Quality Assurance are contained in the SCDAP/RELAP5 computer code or in the MATPRO library of materials properties. Assessment of the combustion model in the HECTR code - Free . Code Manual for CONTAIN 2.0: A Computer Code for Nuclear 3 Feb 2014 . The review considers the areas of design that relate to reactor safety, security and safeguards. of detail for purchase orders; detailed design quality assurance program For small reactor facilities most of the information contained in .. severe accident scenarios. description of analysis (computer codes) Regulatory documents - Canadian Nuclear Safety Commission 3 Nov 2015 . Standards support the regulatory requirements established through the NSCA, . Radiation devices are devices that contain nuclear substances. . Severe Accident Management Programs for Nuclear Reactors N286.7, Quality assurance of analytical, scientific and design computer programs for nuclear Software Quality Assurance Improvement Plan: MELCOR Gap .