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"Information Management System of The Safety Regulatory Requirements and Guidance for The Korea Next Generation Reactors"

1), 2), 2), 2)

¹⁾LG-EDS Systems

20 LG

2)

19

(KINS) 1992
 (Safety and Regulatory Requirements and Guidance: SRRG)
 SRRG (Hierarchy) , ,
 SRRG , , , ,
 5 , SRRG가 , 가
 10CFR Reg. Guide IAEA
 SRRG SRRG
 SRRG
 SRRG, , ,
 가
 SRRG KNGR
 (<http://kngr.kins.re.kr>)

Abstract

In order to achieve the safety of the Korea Next Generation Reactors (KNGR), the Korea Institute of Nuclear Safety has carried out the Safety and Regulatory Requirements and Guidance (SRRG) development program from 1992 such as establishment of the SRRG hierarchy, development of technical requirements and guidance, and consideration of new licensing system. The SRRG hierarchy for the KNGR was consisted of five tiers; Safety Objectives, Safety Principles, General Safety Criteria, Specific Safety Requirements and Safety Regulatory Guides. The developed SRRG have been compared the criteria in 10CFR and Reg. Guide in the U.S.A and the IAEA documents for assuring internationally acceptable level of the SRRG. To improve the efficiency and accuracy of SRRG development, the construction of database system was required in the course of development. Therefore, the Information Management System of SRRG for the KNGR has been developed which enables developers to quickly and accurately seek and systematically manage whole contexts of the SRRG, reference requirements, and current atomic energy regulation rules. Moreover, through homepage whose URL is 'http://kngr.kins.re.kr', the concerned persons and public can acquire the information related with SRRG and KNGR project, and post his/her thought to the opinion forum in the homepage.

1.

2001

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- 1 ('92.12 ~ '94.12) - (),
- 2 ('95.11 ~ '99.02) - ,
- 3 ('99.03 ~ '01.12) - (, ,)

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가

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'98 2

2.

2.1

5

“ ” 가 가

가.

가 (Inventory) , (Version)
 가 (Feedback)

가

가

가

가 가

가

”(Cross Reference Matrix Database) ¹⁾

가

Know-How

2.2

‘2000 2

가

(Sub-System)

. (2.)

가.

1)

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- | | | |
|--------|--------------|----------|
| 1) | 2) | 3) |
| 4) | 5) | 6) 10CFR |
| 7) SRP | 8) Reg Guide | 9) IAEA |

(Tree)

- 1) 5)

(Split)

(Tree)

(Display)

- 6) 9)

가

가

○

4

- 1)
- 2)
- 3) Cross Reference Matrix Database
- 4)

Tree

가

- 1)

- 2) 3 Digit (Cross Reference) (Cross Reference)가 (Matrix)
- 3) (Display)
- 4)

(Full Text) 가

IAEA , 가 10CFR, SRP, Reg Guide,

○

12

- 1) 2) 3)
- 4) 5) 6)
- 7) 8) 9)
- 10) 11) 12)

1), 2), 8), 10) Login Login
 가 , 12) Login
 가

- 1)
- 2)
- 3) tree 가
 Hyper Link가

[] 가
 []
 Hyper Link가

- 4) 1, 2

- 5) 6)[(Hyper Link) ²⁾
- 8) 9) 2)
- 3) 10) 11)
- 12) (Chapter) (Chapter)
- (Table) 가 (Chapter)

2.3

(Interface)

(Inventory)

(Full Text)

(Interface)

가

(User)가 4GL(Generation Language)

(Tool) (Performance)

(Web Browser)

(Web)

가

가 (Tuxedo),

가

2)

가 (Oracle Application Web Server 3.0) . (

가 1)

.

(Full Text)

(DBMS) (Oracle7

Context Option) . (2)

- (Text)

- 가

- (Size), (Source)

- , ,

3.

가

가

가 3

(Upgrade)

가 “

”(Cyber Conference System)

1. , , 1997.
2. , , 1999.
3. 1997 1998 , , 1997.
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5. , , 1999.
6. Oracle8 Context Catridge Release2.3 Administrator's Guide, Oracle, 1998.
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9. Powerbuilder6.0 , , , 1998.
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11. Information Engineering; Planning & Analysis, James Martin, Prentice Hall, 1990.

12. Database Publishing on the Web, Curt Lang & Jeff Chow, Coriolis Group, 1996.
13. 1(), , 1998.
14. , , , 1998.
15. Mastering Powerbuilder 6.5, , , 1999.

1. 가 (Y: Yes, N: No)

	Oracle Web Server 3.0	Netscape Enterprise	Microsoft IIS	Tuxedo, Encina, etc
Transactions	Y	N	Y	Y
Load Balancing	Y	N		Y
Browser-based Admin.	Y	Y	Y	Some
Scalability	Strong	Weak	N	Limited
Ease of Development	Y	Y	Y	N
Any Browser	Y	Y	Y	requires Java in browser
URL-based Transaction Context	Y	N	N	Y
Web Page-based Transaction Demarcation	Y	N	N	N
X/Open Transaction Support Tx & XA	Y	N	N	Y
Browser Managed Transactions	Y	N	N	Only with Java applet
single Login	Y	N	Y	N
S.509 Certificate Support	Y	Y	Y	N
Database Integrated	Y	N	Y	N

2.

	(Repository)
	가 , ,
가	SQL 가
	Soundex/fuzzy Matches Relevance rankings Term Weighting Stop Lists
가	, , 가 PDF , , HTML

