

## Development of Information Management System on LWR Spent Fuel

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LWR

### Abstract

LWRs in Korea should manage all the information of spent fuel to implement the obligations under Korea - IAEA safeguards agreement and to perform the nuclear material accountancy work at the facility level. The information management system on LWR spent fuel was developed to manage all movement records from receipt to shipment of LWR fuels, and to get the necessary information such as nuclear fuel inventory lists and status, maps of fresh fuel storage, reactor and spent fuel pool, receipt and shipment records and so on. This information management system has a function to setup the system environments to cover the various kinds of storage types for all LWRs ; reactor, spent fuel pool and fresh fuel storage. The movements of nuclear fuel between the storages can be easily done by double click of the mouse to the destination. It also has a several error checking routines for maintaining the correct accounting data. Using this information management system of LWR spent fuel, facility operators can perform efficiently and effectively the safeguards related works including nuclear material accountancy at each facility.



Information Server) , Web. VBScript(Visual Basic Script) ASP(Active Server Page) , Visual basic 6.0  
 far Point Spread 3.5 .

, User Interface .

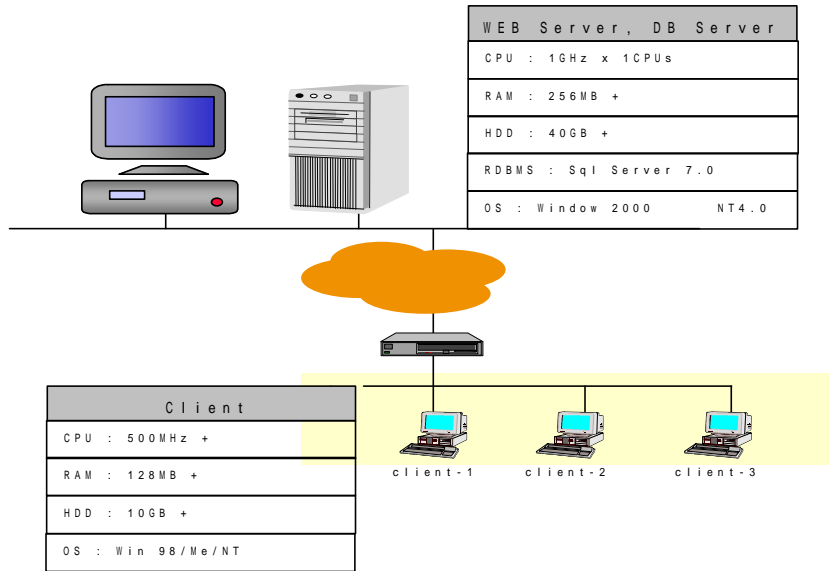
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Window 2000 OS , Window NT  
 4.0 .  
 1 , Window 2000 Window NT  
 NT 가 1 2 ,  
 DBMS(DataBase Management System) MS  
 SQL sever 7.0 , MS IIS(Internet Information Server) .  
 Web.  
 가 가 .  
 Network  
 - ,  
 Stand alone

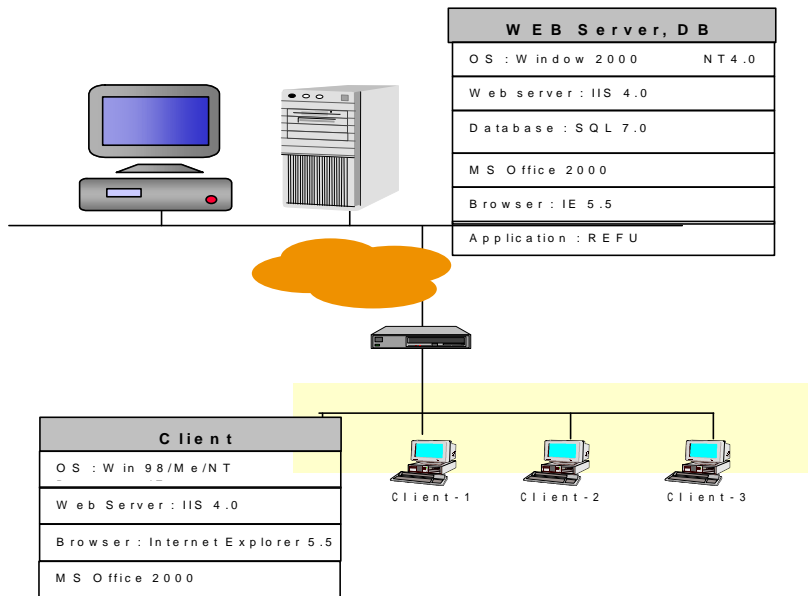
1.

Operation System	Window 2000 NT 4.0
Web Serber	IIS 5.0
Database	MS SQL 7.0
Web Develop Language	ASP (Active Server Page) VBScript (Visual Basic Script)
Development Tool	Visual Vasic 6.0 SP 5 (Active X) Far Point Spread 3.5
Browser	Internet Explorer 5.5

1. H/W



2. S/W



3.

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- ODBC DB , DB  
DB , 가 .
- - a. 가 , 가
  - b. 가 , 가 , 가 가 .
- Map ( 가)
  - a. Map 가 .
  - b. Map .
- SFP(Spent Fuel Pool) Map 가
  - a. Map Region 10 .
  - b. Map 가 Region 가 Map .  
가 Map 10 Map
- 
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- 
- 
- - a. Region Region Map
  - b. Region Map .
- - a. Map
  - b. , Map
  - c. 가 .
- - a. 가 , “ ”

b. 가 “ ”

LN & NP

a.  
b. LN & NP

가

LN& NP

4.

database가

3 database  
“Database ”

3 field  
database

user id.

가

4

10

5 가

5

header

disable Disable  
가

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가

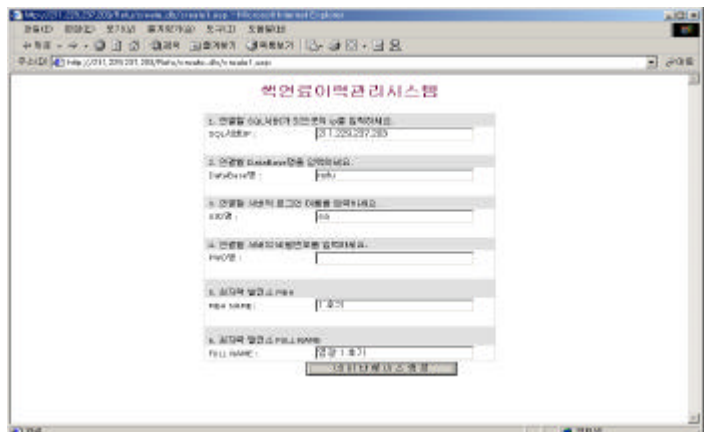
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map

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3.



4.

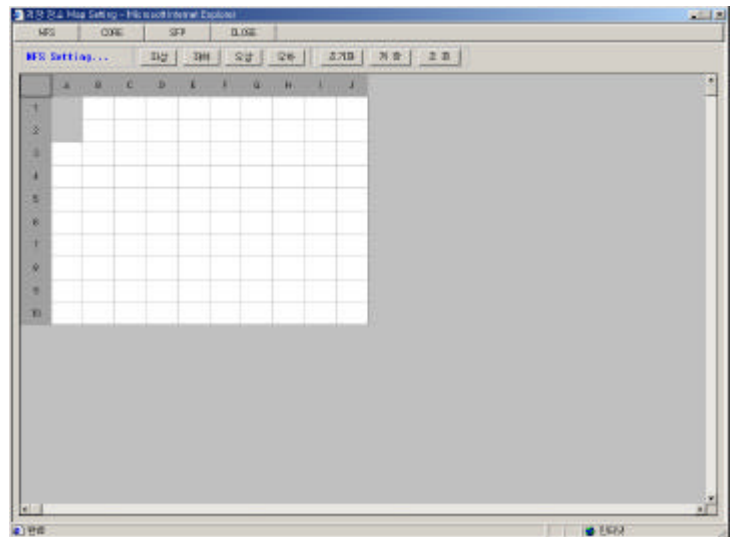
좌표점수명	영수	종수
NPS	ITD	ITD
COSE	ITP	ITP

좌표점수명	좌표점수	
	영수	종수
REGION1	ITD	ITD
REGION2	ITD	ITD
REGION3	ITD	ITD
REGION4	ITD	ITD
REGION5		
REGION6		
REGION7		
REGION8		
REGION9		
REGION10		

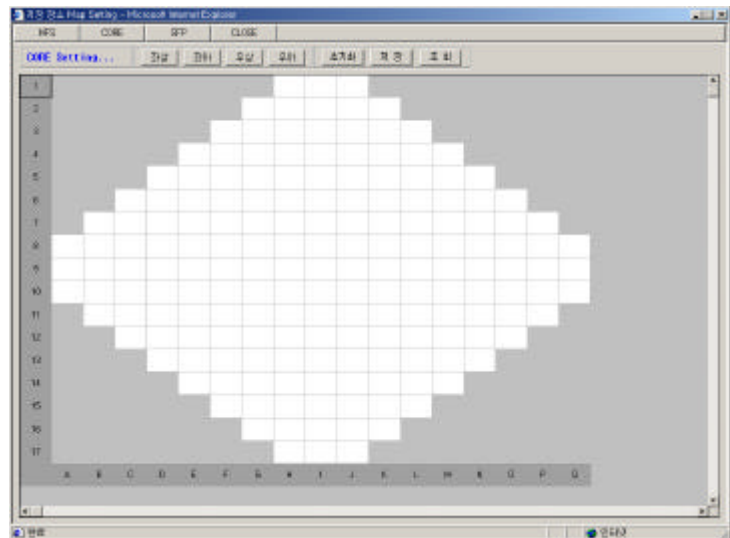
이전 / 다음  
취소 / 취소

5.



6.

disable



5.

excel 가

map 가 가

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map 가

가.

excel

가

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error가

가 ,  
database

excel

6

excel

file

7

가

excel

가

excel

8

field

가

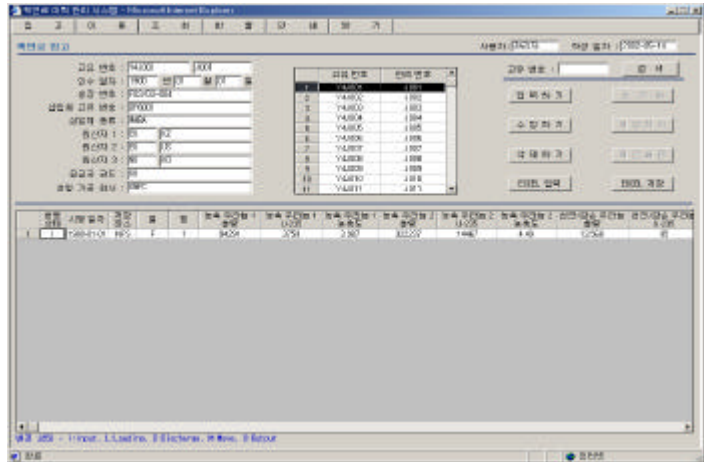
excel

(KNFC)가

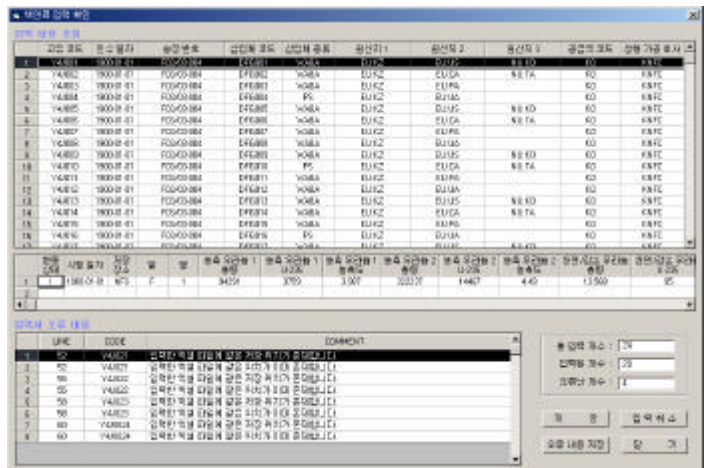
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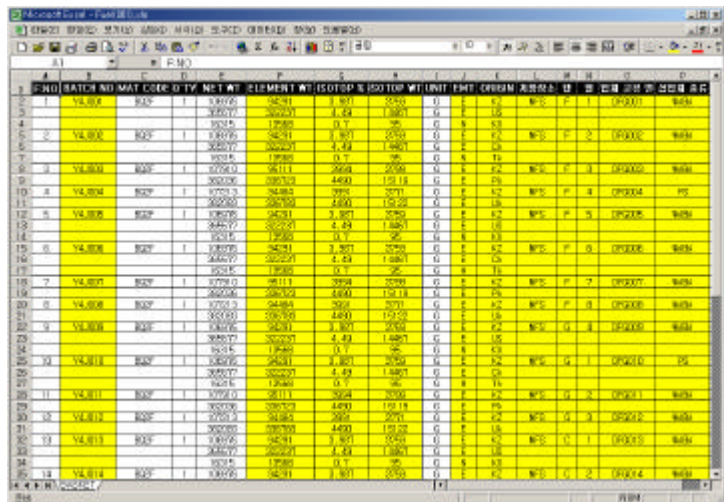
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7. Excel

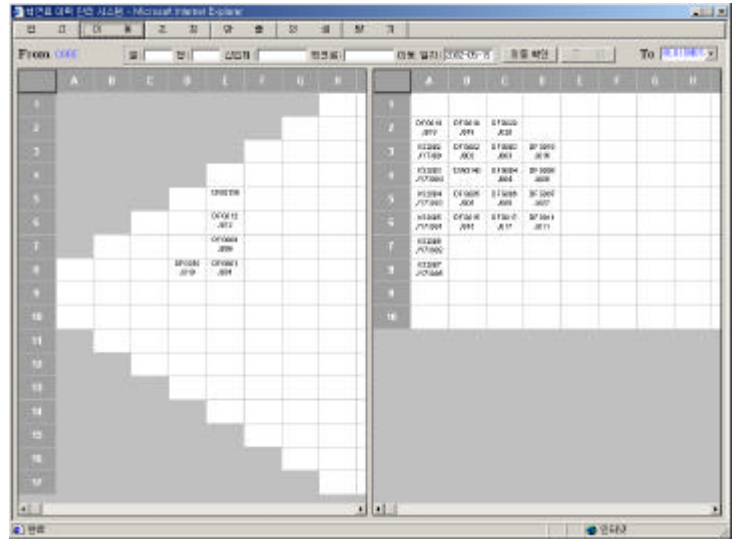


8. excel





10.



map

region  
map

region

region excel

map

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database

database

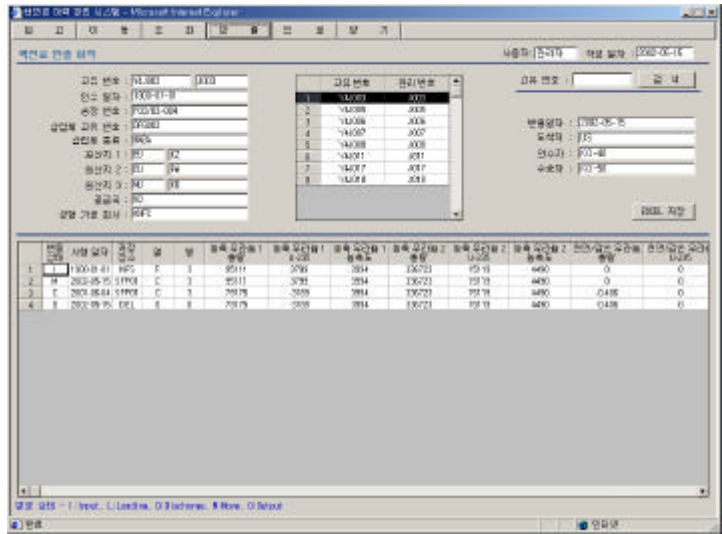
database

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(nuclear loss)

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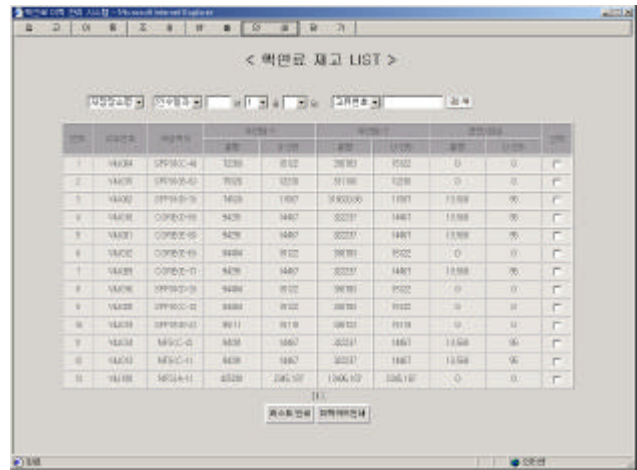


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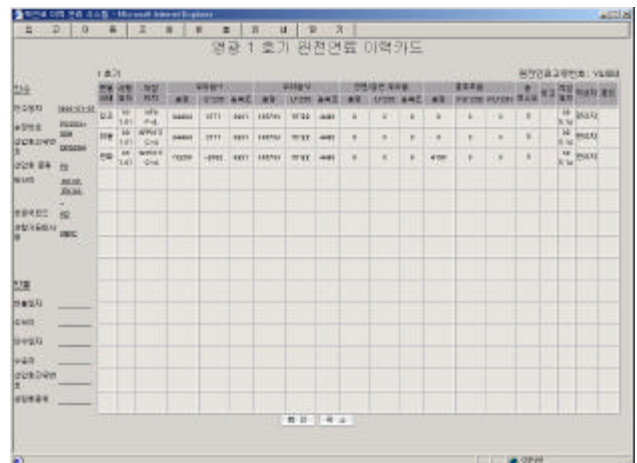
12

“ ” field

13



12.



13.

