#### THE IAEA DIRECTORY OF RADIOACTIVELY CONTAMINATED SITES (DRCS)

W. E. Falck

International Atomic Energy Agency, Waste Technology Section Wagramer Str. 5, P.O.Box 100, A-1400 Vienna, Austria

## ABSTRACT

A key instrument for collecting and disseminating information about radioactively contaminated sites and pertinent management strategies and remediation techniques will be the Directory of Radioactively Contaminated Sites (DRCS) currently under development at the International Atomic Energy Agency. This paper describes the contents and modes of access for the DRCS.

#### INTRODUCTION

In fulfilling its obligations under Article VIII of its statutes, the IAEA attaches great importance to the dissemination of information that can assist Member States with the development, implementation, maintenance and continuous improvement of systems, programmes and activities that support the nuclear fuel cycle and nuclear applications, including managing the legacy of past practices and accidents. In response to this, the IAEA has initiated a comprehensive programme of work covering all aspects of environmental remediation.

A key instrument for collecting and disseminating information about radioactively contaminated sites and pertinent management strategies and remediation techniques will be the Directory of Radioactively Contaminated Sites (DRCS) currently under development.

#### HISTORICAL DEVELOPMENTS

The process to establish a world-wide directory of radioactively contaminated sites was started in 1996, when a questionnaire was sent to the Member States, asking them to provide information on relevant sites on their respective territories. The survey explicitly addressed sites contaminated with radioactivity as a result of

- (a) nuclear or radiological accidents
- (b) nuclear weapons production and testing
- (c) poor waste management and disposal practices
- (d) industrial manufacturing involving radioactive materials
- (e) conventional mining and milling of ores resulting in radioactive residues.

Only a limited number of Member States responded with information on such sites. After reviewing thoroughly the results of its previous efforts, the Agency decided to re-define the purpose and structure of the directory.

The Agency developed a technical document [1] that fulfilled two main objectives:

- (a) to describe the activities and underlying considerations and concepts for the development by the Agency of a world-wide Directory of Radioactively Contaminated Sites;
- (b) to give some recommendations for the development of such directories at the Member State level.

Using this conceptual basis, the Agency developed a WWW-based tool for submitting and viewing relevant information, the DRCS.

## THE STRUCTURE OF THE DRCS

The DRCS is accessible on the Internet, using a Web-browser. It is essentially divided into two domains, one public, the other one private. The public domain allows the free viewing the published database content. The private domain serves to submit data to DRCS.

The data are grouped into 18 main categories, ranging from site identifiers, to geographical, geological, hydrological, socio-economic data and characteristics of the contaminants, hazards and impacts, remediation measures, to references to pertinent published references (Table I).

	Table 1 Wall data categories in the DRC5			
100	Identification And Location Of The Site (Area)			
200	Legal / Institutional Responsibilities			
220	Ownership, Operation And Administrative Responsibilities			
230				
240	0 Social & Economic Aspects			
300	Site History			
410	Physical Geographical			
430	Geological And Hydrological Characteristics			
440	Climatological Characteristics			
450	Demographic Data			
460	Economic Data			
500	Type, Levels And Extent Of Contamination			
510	Radiological Contamination Level			
520	Contaminated Environmental Media Characterization			
540	Radioactive And Hazardous Waste Characterization			
600	Potential And Actual Hazards Issuing From The Site And Emergency Measures			
700	Restoration Strategies And Techniques			
900	Published Information On The Site			

Table I Main data categories in the DRCS

## ACCESSING DATA

Sites of interest can by selected by two routes of entry:

• a list of Member States (MS) and a list of sites within the boundaries of this MS is provided from which to choose (Fig. 3).

3		21 5				
		illo				
1124013	Home & Acess D	ata 🧳 <u>Search</u>	Submi	t Data	De Logout	Relp
Øs	Submit Data : Updating	Previous	Page Main M	enu 📃 Next Pag	e	
5	Site: Kraton-E	Country: R	ussian Federatio	n		
410	PHYSICAL GEOGRAPH	HICAL CHARACTERIS	TICS			
412	Topographical map	http://drcs-dev/getfile.asp?fnar	ne=\wefalck\Site4\0	30519_111329-3\T	pographicMap.	
	If a map/document is available on I from your computer click on upload			nection, type its ad	dress in the field	. To upload a map
420	Land Cover					
421	Sealed/built-up area (sq.km)					
422	Prevailing land cover	Forest/Plantation				
423	Land-cover map	http://drcs-dev/getfile.asp?fnar	ne=\wefalck\Site4\0	30519 111357-4\La	andCoverMap.J	
	If a map/document is available on I from your computer click on upload			nection, type its ad	dress in the field	. To upload a map
	Access	1	Duration Dates	1	I Mark David	
Ddys	e Changes		Previous Page	Main Menu	Next Page	
		100				
	Home Acess D	ata 🔗 <u>Search</u>	🛿 Submi	t Data	🕫 <u>Logout</u>	R Help
Ø s	Home Submit Data : Review Submit		Previous Page	t Data Amenu	Logout Next Page	Nelp
iii an ta		ssion		Main Menu		l 🤻 Help
iii an ta	Submit Data : Review Submit	ssion Country: R	Previous Page	Main Menu		Help.
5	Submit Data:Review Submit Site:   Kraton-E	SSION Country: R FAMINATION LEVEL	Previous Page	Main Menu		Help
510 511	Submit Data : Review Submit Site: Kraton-E RADIOLOGICAL CONT Radioactive contamination, to	ssion Country:   R AMINATION LEVEL tal activity	Previous Page	Main Menu		R Help
510 511 511.1	Submit Data : Review Submit Site: Kraton-E RADIOLOGICAL CONT Radioactive contamination, to	ssion Country:   R AMINATION LEVEL tal activity	Previous Page	Main Menu	Next Page	
510 511 511.1 511.3	Submit Data : Review Submit Site: Kraton-E RADIOLOGICAL CONT Radioactive contamination, to Surface contamination density	Ssion Country: R TAMINATION LEVEL tal activity	Previous Page	Main Menu	Next Page	kBg/m² V
510 511 511.1 511.3 511.4	Submit Data : Review Submit Site: Kraton-E RADIOLOGICAL CONT Radioactive contamination, to Surface contamination density Contaminated area	SSION Country: R CAMINATION LEVEL tal activity soll, depth 0-15 cm	Previous Page	Main Menu	Next Page	kBq/m² ¥
510 511 511.1 511.3 511.4 511.6	Submit Data : Review Submit Site: Kraton-E RADIOLOGICAL CONT Radioactive contamination, to Surface contamination density Contaminated area Mean specific activity level in s	SSION Country: R CAMINATION LEVEL tal activity soll, depth 0-15 cm	Previous Page	Main Menu	Next Page	KBg/m² ¥
510 511 511.1 511.3 511.4 511.6 511.8	Submit Data : Review Submit Site: Kraton-E RADIOLOGICAL CONT Radioactive contamination, to Surface contamination density Contaminated area Mean specific activity level in s Reference date	ssion Country:   R TAMINATION LEVEL tal activity soil, depth 0-15 cm soil, depth below 15 cm	Previous Page	Main Menu	Next Page	kBq/m² v km² v
510 511 511.1 511.3 511.4 511.6	Submit Data : Review Submit Site: Kraton-E RADIOLOGICAL CONT Radioactive contamination, to Surface contamination density Contaminated area Mean specific activity level in s Mean specific activity level in s	ssion Country:   R TAMINATION LEVEL tal activity soil, depth 0-15 cm soil, depth below 15 cm r (nuclide):	Previous Page	Main Menu	Next Page	kbg/m² ¥ km² ¥ v v delete f
510 511 511.1 511.3 511.4 511.6 511.8 512 512 512.2	Submit Data : Review Submit Site: Kraton-E RADIOLOGICAL CONT Radioactive contamination, to Surface contamination density Contaminated area Mean specific activity level in s Reference date Radioactive contamination fo Surface contamination densit	ssion Country:   R TAMINATION LEVEL tal activity soil, depth 0-15 cm soil, depth below 15 cm r (nuclide):	Previous Page	Main Menu n 100 100 5r 20	Next Page	KBq/m² ¥ km² ¥ km² ¥ v kBq/m² ¥
510 511 511.1 511.3 511.4 511.6 511.8 512 512.2 512.4	Submit Data : Review Submit Site: Kraton-E RADIOLOGICAL CONT Radioactive contamination, to Surface contamination density Contaminated area Mean specific activity level in s Mean specific activity level in s Reference date Radioactive contamination fo Surface contamination densit Contaminated area	ssion Country: R FAMINATION LEVEL tal activity soil, depth 0-15 cm soil, depth below 15 cm r (nuclide): y	Previous Page	Main Menu	Next Page	kBq/m² ¥ km² ¥ km² ¥ km² k km² ¥ kBq/m² ¥
510 511 511.1 511.3 511.4 511.6 511.8 512 512.2 512.4 512.5	Submit Data : Review Submit Site: Kraton-E RADIOLOGICAL CONT Radioactive contamination, to Surface contamination density Contaminated area Mean specific activity level in s Reference date Radioactive contamination fo Surface contamination densit Contaminated area Mean specific activity level in	ssion Country: R AMINATION LEVEL tal activity soil, depth 0-15 cm soil, depth below 15 cm r (nuclide): y soil, depth 0-15 cm	Previous Page	Main Menu n 100 100 5r 20	Next Page	kBq/m² v km² v km² v v delete f kBq/m² v km² v
510 511 511.1 511.3 511.4 511.6 511.8 512 512.2 512.2 512.5 512.7	Submit Data : Review Submit Site: Kraton-E RADIOLOGICAL CONT Radioactive contamination, to Surface contamination density Contaminated area Mean specific activity level in s Reference date Radioactive contamination fo Surface contamination densit Contaminated area Mean specific activity level in Mean specific activity level in	ssion Country: R AMINATION LEVEL tal activity soil, depth 0-15 cm soil, depth below 15 cm r (nuclide): y soil, depth 0-15 cm	Previous Page	Main Menu n 100 100 5r 20	Next Page	kBq/m² ¥ km² ¥ km² ¥ km² k km² ¥ kBq/m² ¥
5110 5111 511.1 511.3 511.4 511.6 511.8 512 512.2 512.2 512.2 512.2 512.2 512.5 512.5	Submit Data : Review Submit Site: Kraton-E RADIOLOGICAL CONT Radioactive contamination, to Surface contamination density Contaminated area Mean specific activity level in s Reference date Radioactive contamination fo Surface contamination densit Contaminated area Mean specific activity level in Mean specific activity level in Mean specific activity level in Mean specific activity level in Soil sample density (kg/m3)	ssion Country: R AMINATION LEVEL tal activity soil, depth 0-15 cm soil, depth below 15 cm r (nuclide): y soil, depth 0-15 cm	Previous Page	Main Menu n 100 100 5r 20	Next Page	kBq/m² v km² v km² v v delete f kBq/m² v km² v
5110 5111 511.1 511.3 511.4 511.6 511.8 512 512.2 512.2 512.2 512.2 512.2 512.3	Submit Data : Review Submit Site: Kraton-E RADIOLOGICAL CONT Radioactive contamination, to Surface contamination density Contaminated area Mean specific activity level in s Reference date Radioactive contamination fo Surface contamination densit Contaminated area Mean specific activity level in Mean specific activity level in	ssion Country: R AMINATION LEVEL tal activity soil, depth 0-15 cm soil, depth below 15 cm r (nuclide): y soil, depth 0-15 cm	Previous Page	Main Menu n 100 100 5r 20	Next Page	kBq/m² v km² v km² v v delete f kBq/m² v km² v
5110 5111 511.1 511.3 511.4 511.6 511.8 512 512.2 512.2 512.2 512.2 512.2 512.3	Submit Data : Review Submit Site: Kraton-E RADIOLOGICAL CONT Radioactive contamination, to Surface contamination density Contaminated area Mean specific activity level in s Reference date Radioactive contamination fo Surface contamination densit Contaminated area Mean specific activity level in Mean specific activity level in Mean specific activity level in Mean specific activity level in Soil sample density (kg/m3)	ssion Country:   R TAMINATION LEVEL tal activity soil, depth 0-15 cm soil, depth below 15 cm r (nuclide): Y soil, depth 0-15 cm soil, depth below 15 cm	Previous Page	Main Menu n 100 100 100 5r 20 100	Next Page	kBq/m² v km² v km² v v delete f kBq/m² v km² v
\$           510           511           511.1           511.3           511.4           511.5           511.6           511.8           512           512.2           512.4           512.5           512.7           512.7           512.9           512.10	Submit Data : Review Submit Site: Kraton-E RADIOLOGICAL CONT Radioactive contamination, to Surface contamination density Contaminated area Mean specific activity level in s Reference date Radioactive contamination fo Surface contamination densit Contaminated area Mean specific activity level in Surface contamination densit Contaminated area Mean specific activity level in Mean specific activity level in Soil sample density (kg/m3) Reference date	ssion Country: R AMINATION LEVEL tal activity soil, depth 0-15 cm soil, depth below 15 cm r (nuclide): y soil, depth below 15 cm soil, depth below 15 cm	Previous Page	Main Menu n 100 100 100 5r 20 100	· Page	kbg/m² ¥ km² ¥ w w w kbg/m² ¥ kbg/m² ¥ km² ¥ km² ¥
8           510           511           511.1           511.3           511.4           511.5           511.6           511.8           512           512.2           512.4           512.5           512.7           512.7           512.7           512.7           512.10           512.10	Submit Data : Review Submit Site: Kraton-E RADIOLOGICAL CONT Radioactive contamination, to Surface contamination density Contaminated area Mean specific activity level in s Mean specific activity level in s Reference date Radioactive contamination fo Surface contamination densit Contaminated area Mean specific activity level in Mean specific activity level in Mean specific activity level in Soil sample density (kg/m3) Reference date Radioactive contamination fo	ssion Country: R AMINATION LEVEL tal activity soil, depth 0-15 cm soil, depth below 15 cm r (nuclide): y soil, depth below 15 cm soil, depth below 15 cm	Previous Page	Main Menu n 100 100 100 100 100 100 100 100	•90 •	kBq/m² v kBq/m² v km² v v v kBq/m² v km² v km² v km² v km² v

Fig. 3 Sample Data Entry Pages

• a sequence of 'clickable' maps is provided, 'drilling down' from the World, to regions, to individual Member States. On this last level, 'hot spots' identify individual sites that then can be clicked (Fig. 2).

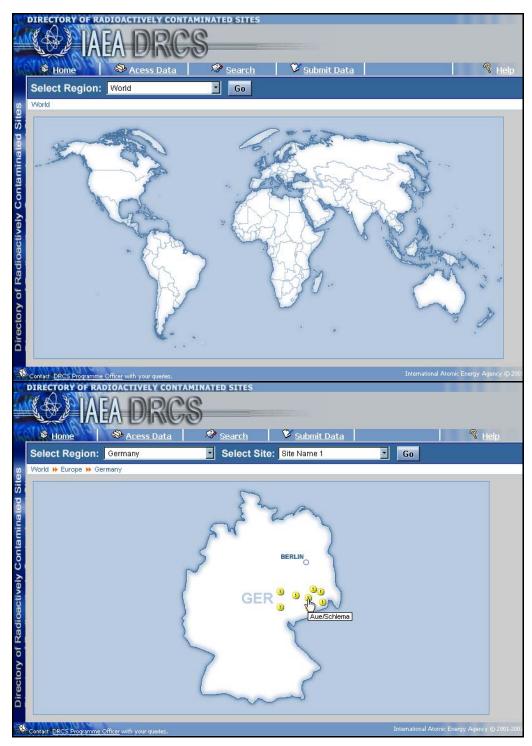


Fig. 2 Contaminated site selection by 'clickable' maps (dummy page)

SX.	😵 Home 🛛 🗇 Acess Data 🛛 🥔 Search 🛛 🖉 Submit Data 🛛 🧭 Logout 👘 🥞 H						Help	
5	Submit Data : Review S	Submission		Previous Page	Main Menu	Next Page		
9 Site: Kraton-E Country: Russian Federation								
600	POTENTIAL AND	ACTUAL HAZARDS	SISSUIN	G FROM TH	E SITE AND	EMERGEN	CY MEASU	IRES
610	Actual Hazards							
520	Potential Hazards	tential Hazards Radiation situation at the "Kraton-3" object is under control. There are local contaminated spots. Practic radionuclide migration has been detected. Measures for ensuring the radiation safety and a number of r out any radiation impact on the population						ons rule
531	Implemented	At the site within the area	of P = 100 m	around the well a	vlayer of coil bad	heen removed. The	well bead and a	burial of
	countermeasures	contaminated soil and tech						
		The Federal Special Program "Radioactive Waste and Spent Nuclear Materials Management and Disposal (1995- 2000 envisaged development and implementation of special measures for exploration of sites, where peaceful nuclear explosions had been carried out, and drawing up of environmental certificates of radiation-contaminated objects, including the "Kraton-3" epicenter zone.						
	Planned countermeasur	envisaged development a explosions had been carri	nd implementa ed out, and di	ation of special me awing up of envir	asures for explore	ation of sites, when	e peaceful nuclea	ar
DIRE	ECTORY OF RADIOACT	IVELY CONTAMINATED	nd implementa ed out, and di picenter zone	tion of special me awing up of envir	asures for explor onmental certifica	tion of sites, where the solution of adjustment of the solution of the solutio	e peaceful nuclea taminated object	ar
DIRE	AVE Changes ECTORY OF RADIOACT ALE Home Submit Data : Review S	IVELY CONTAMINATED DRCCS cess Data	nd implementa ed out, and di picenter zone SITTES earch	tion of special me awing up of envir wing up of envir Previous Page	sures for explor onmental certifica	tion of sites, where	e peaceful nuclea taminated object	ar :S,
Sa DIRE	Ave Changes ECTORY OF RADIOACT A Home Home Submit Data : Review S Site: Kraton-E	IVELY CONTAMINATED DRCCS cess Data Submission	nd implement, ed out, and di picenter zone s SITES earch [] mtry:   Rus	tion of special me awing up of envir With the special special special special special	sures for explor onmental certifica	tion of sites, where the solution of adjustment of the solution of the solutio	e peaceful nuclea taminated object	ar :S,
Se DIRE	Ave Changes ECTORY OF RADIOACT A DEAL Home Submit Data : Review S Site: Kraton-E RESTORATION S	TVELY CONTAMINATED DRCS cess Data S Submission COU TRATEGIES AND T	earch mtry: Rus ECHNIQ	tion of special me awing up of envir With the special special special special special	sures for explor onmental certifica	tion of sites, where the solution of adjustment of the solution of the solutio	e peaceful nuclea taminated object	ar is, Help
Sa DIRE	Ave Changes ECTORY OF RADIOACT A DEA Home Submit Data : Review S Site: Kraton-E RESTORATION S	IVELY CONTAMINATED DRCCS cess Data Submission	earch mtry: Rus ECHNIQ	tion of special me awing up of envir With the special special special special special	sures for explor onmental certifica	tion of sites, where the solution of adjustment of the solution of the solutio	e peaceful nuclea taminated object	ar is, Help
See DIRE	Ave Changes	TVELY CONTAMINATED DRCCS CONTAMINATED DRCS CONTAMINATED DRCS CONTAMINATED DRCS CONTAMINATED DRCS CONTAMINATED CONTAMINATED CONTAMINATED CONTAMINATED CONTAMINATED CONTAMINATED CONTAMINATED CONTAMINATED CONTAMINATED CONTAMINATED CONTAMINATED CONTAMINATED CONTAMINATED CONTAMINATED CONTAMINATED CONTAMINATED CONTAMINATED CONTAMINATED CONTAMINATED CONTAMINATED CONTAMINATED CONTAMINATED CONTAMINATED CONTAMINATED CONTAMINATED CONTAMINATED CONTAMINATED CONTAMINATED CONTAMINATED CONTAMINATED CONTAMINATED CONTAMINATED CONTAMINATED CONTAMINATED CONTAMINATED CONTAMINATED CONTAMINATED CONTAMINATED CONTAMINATED CONTAMINATED CONTAMINATED CONTAMINATED CONTAMINATED CONTAMINATED CONTAMINATED CONTAMINATED CONTAMINATED CONTAMINATED CONTAMINATED CONTAMINATED CONTAMINATED CONTAMINATED CONTAMINATED CONTAMINATED CONTAMINATED CONTAMINATED CONTAMINATED CONTAMINATED CONTAMINATED CONTAMINATED CONTAMINATED CONTAMINATED CONTAMINATED CONTAMINATED CONTAMINATED CONTAMINATED CONTAMINATED CONTAMINATED CONTAMINATED CONTAMINATED CONTAMINATED CONTAMINATED CONTAMINATED CONTAMINATED CONTAMINATED CONTAMINATED CONTAMINATED CONTAMINATED CONTAMINATED CONTAMINATED CONTAMINATED CONTAMINATED CONTAMINATED CONTAMINATED CONTAMINATED CONTAMINATED CONTAMINATED CONTAMINATED CONTAMINATED CONTAMINATED CONTAMINATED CONTAMINATED CONTAMINATED CONTAMINATED CONTAMINATED CONTAMINATED CONTAMINATED CONTAMINATED CONTAMINATED CONTAMINATED CONTAMINATED CONTAMINATED CONTAMINATED CONTAMINATED CONTAMINATED CONTAMINATED CONTAMINATED CONTAMINATED CONTAMINATED CONTAMINATED CONTAMINATED CONTAMINATED CONTAMINATED CONTAMINATED CONTAMINATED CONTAMINATED CONTAMINATED CONTAMINATED CONTAMINATED CONTAMINATED CONTAMINATED CONTAMINATED CONTAMINATED CONTAMINATED CONTAMINATED CONTAMINATED CONTAMINATED CONTAMINATED CONTAMINATED CONTAMINATED CONTAMINATED CONTAMININATED CONTAMININATED CONTAMININATED CONTAMININATED CONTAMININATED CONTAMININATED CONTAMININATED CONTAMININATED CONTAMININATED CONTAMININATED CONTAMININATED CONTAMININATED CONTAMININATED CONTAMININATED CONTAMININATED CONTAMININATED CONTAM	nd inplement, ed out, and du picenter zone stres earch earch mtry: Rus ECHNIQU applied	tion of special me awing up of enviro Submit Previous Page Sian Federation JES	t Data	Logout     Next Page	e peaceful nuclea taminated object	ar is, Help
58 DIRE 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	APPE Changes	TVELY CONTAMINATED DRCCS CESS Data Submission Country of the second seco	nd inplement, and di picenter zone s sittes earch earch children, Rus ECHNIQU applied	tion of special me awing up of enviro Submit Previous Page Sian Federation JES	sures for explor onmental certifica	Logout     Next Page	e peaceful nuclea taminated object	ar is, Help
See DIRE	Ave Changes	TVELY CONTAMINATED DRCCS CESS Data Submission Country of the second seco	nd inplement, ed out, and du picenter zone stres earch earch mtry: Rus ECHNIQU applied	tion of special me awing up of enviro Submit Previous Page Sian Federation JES	t Data		e peaceful nuclea taminated object	ar is, Help
5880 DIRE 0 700 711 711 711 711 711	Ave Changes	TVELY CONTAMINATED DRCCS CONTAMINATED DRCS CONTAMINATED DRCS CONTAMINATED DRCS CONTAMINATED CONTAMINATED CONTAMINATED CONTAMINATED CONTAMINATED CONTAMINATED CONTAMINATED CONTAMINATED CONTAMINATED CONTAMINATED CONTAMINATED CONTAMINATED CONTAMINATED CONTAMINATED CONTAMINATED CONTAMINATED CONTAMINATED CONTAMINATED CONTAMINATED CONTAMINATED CONTAMINATED CONTAMINATED CONTAMINATED CONTAMINATED CONTAMINATED CONTAMINATED CONTAMINATED CONTAMINATED CONTAMINATED CONTAMINATED CONTAMINATED CONTAMINATED CONTAMINATED CONTAMINATED CONTAMINATED CONTAMINATED CONTAMINATED CONTAMINATED CONTAMINATED CONTAMINATED CONTAMINATED CONTAMINATED CONTAMINATED CONTAMINATED CONTAMINATED CONTAMINATED CONTAMINATED CONTAMINATED CONTAMINATED CONTAMINATED CONTAMINATED CONTAMINATED CONTAMINATED CONTAMINATED CONTAMINATED CONTAMINATED CONTAMINATED CONTAMINATED CONTAMINATED CONTAMINATED CONTAMINATED CONTAMINATED CONTAMINATED CONTAMINATED CONTAMINATED CONTAMINATED CONTAMINATED CONTAMINATED CONTAMINATED CONTAMINATED CONTAMINATED CONTAMINATED CONTAMINATED CONTAMINATED CONTAMINATED CONTAMINATED CONTAMINATED CONTAMINATED CONTAMINATED CONTAMINATED CONTAMINATED CONTAMINATED CONTAMINATED CONTAMINATED CONTAMINATED CONTAMINATED CONTAMINATED CONTAMINATED CONTAMINATED CONTAMINATED CONTAMINATED CONTAMINATED CONTAMINATED CONTAMINATED CONTAMINATED CONTAMINATED CONTAMINATED CONTAMINATED CONTAMINATED CONTAMINATED CONTAMINATED CONTAMINATED CONTAMINATED CONTAMINATED CONTAMINATED CONTAMINATED CONTAMINATED CONTAMINATED CONTAMINATED CONTAMINATED CONTAMINATED CONTAMINATED CONTAMINATED CONTAMINATED CONTAMINATED CONTAMINATED CONTAMINATED CONTAMINATED CONTAMINATED CONTAMINATED CONTAMINATED CONTAMINATED CONTAMINATED CONTAMINATED CONTAMINATED CONTAMINATED CONTAMINATED CONTAMINATED CONTAMINATED CONTAMINATED CONTAMINATED CONTAMINATED CONTAMININATED CONTAMININATED CONTAMININATED CONTAMININATED CONTAMININATED CONTAMININATED CONTAMININATED CONTAMININATED CONTAMININATED CONTAMININATED CONTAMININATED CONTAMININATED CONTAMININATED CONTAMININATED CONTAMININATED CONTAMININATED CONTAMININA	nd inplement, and di picenter zone s sittes earch earch children, Rus ECHNIQU applied	tion of special me awing up of enviro Submit Previous Page Sian Federation JES	t Data		e peaceful nuclea taminated object	ar is, Help

Fig. 4 Detailed information on site hazards and remediation measures

## CONTAMINATED SITES INFORMATION

In Figs. 3 and 4, screen shots show examples of data entry pages. The 'view only' pages (entry through 'Access Data') would look very much the same, except that, of course, nothing can be changed. The user can view the pages in sequences using a 'next' button, or navigate through the site information using the main selection page.

## SEARCH FACILITY

The database user can configure various search profiles as illustrated in Fig. 1. The user then is provided with a list of sites matching the selected criteria to choose from.

	Acess Data	🔗 Search 🛛 Ў <u>Submit Data</u> 📔 🦓 <u>Help</u>				
Search Database						
earching for:	General data:					
Location	Country:	Russian Federation				
Contacts	Site Name:					
Site history	Location data:					
Contamination type	Locaton:					
Site Characteristics Hazards	Latitude:					
Restoration	🗡 Clear	Latitude degrees range from 0 to 90. Minutes values range from 0 to 59.				
Publications	Longitude:					
Configure Form	🗙 Clear	Longitude degrees range from 0 to 180.				
Configure Form	Restoration Methods data:					
	Measures					
	Technique					
	-	Submit Undo changes Clear				

Fig. 1 The Main Web-page of the DRCS and Search Profile

# DATA COLLECTION AND QUALITY CONTROL/QUALITY ASSURANCE

The main tool for data collection is a system of Country Contact Points (CCPs) that has been established in the Member States. To date 25 countries have registered CCPs. These CCPs will collate relevant site data and ensure that they are compatible with the respective Member State's policy and practices. This route was chosen in order to avoid possible conflicts over the decision what constitutes a 'contaminated site'. The definition may vary from Member State to Member State and the Agency does not want to prejudice a decision in a Member State.

## CURRENT STATUS

The DRCS is now operational and can accessed at <u>'http://www-drcs.iaea.org/</u>'. However, the data content at present is very limited, pending the submissions by the Country Contact Points.

## **CURRENT STATUS**

The Agency invites contributions to this ongoing programme. The contact details for the relevant Country Contact Point can be obtained from the DRCS administrator (DRCSProgrammeOfficer@iaea.org).

#### REFERENCES

1 International Atomic Energy Agency, Design Criteria for a worldwide directory of radioactively contaminated sites (DRCS), IAEA-TECDOC-1251, Vienna (2001).

## ACKNOWLEDGEMENTS

Numerous people have, over the years, contributed to the design and finally the implementation of the software tool. More recently, Iouri Podzniakov, Anne Scanlon, and Holger Schlaminger have contributed to the software development.