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**MIRION**  
**Connect** **24**  
Annual Users' Conference

July 29 - August 2 | Omni Dallas Hotel, Dallas, TX



**MIRION**  
TECHNOLOGIES

# Dose Management and Access Control Solutions DosiServ




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Mirion Connect | Annual Users' Conference 2024

Dallas, Texas

## General information about DosiServ.

-  General Architecture
-  IT information
-  Basic functionalities

## Dig into functionalities

-  Contamination Monitors
-  Dose management
  -  External doses
  -  Integrated dose versus electronic dose
-  Qualifications
-  RWP versus Jobs
  -  Budgets
  -  DMC selections
-  Dashboard
-  Track a DMC
-  Smart Offline
-  Personal limits
-  Custom Made reports
-  Body Monitors

## Coming Soon

-  NRC FORM 4/FORM5
-  Other

# Agenda

General information about DosiServ

Dig into functionalities

2023 New features

Coming Soon (US version features)

Q&A

# General information about DosiServ



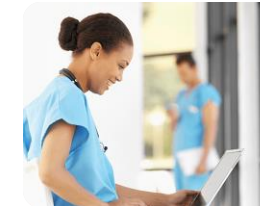
# General Architecture

🏠 The DosiServ dosimetry system is an integrated state of the art dose management system.

🏠 It is fully scalable in order to comply with nuclear power plant as well as smaller industry expectations.

🏠 Main users are :

- ☢ Nuclear industry (NPP, fuel cycle)
- 🔬 Laboratories and education
- 🛡 Homeland security and defense
- ⚙ Industry and manufacturing
- 🏥 Healthcare





# General Architecture

- The DosiServ dosimetry system operates with
  - 🏠 Electronic dosimeters (MIRON's whole range, in hands free mode)
  - 🏠 Readers (industrial, and/or PC based kiosks)
  - 🏠 Computer system (server & clients)



LDM 1000



LDM 3200



LDM "DIY"



DMC 2000 S



DMC 3000



DMC 3000 Beta



DMC 3000  
Neutron



DMC 3000 eTx



DMC 3000 LTx

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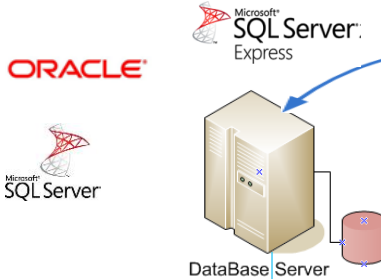
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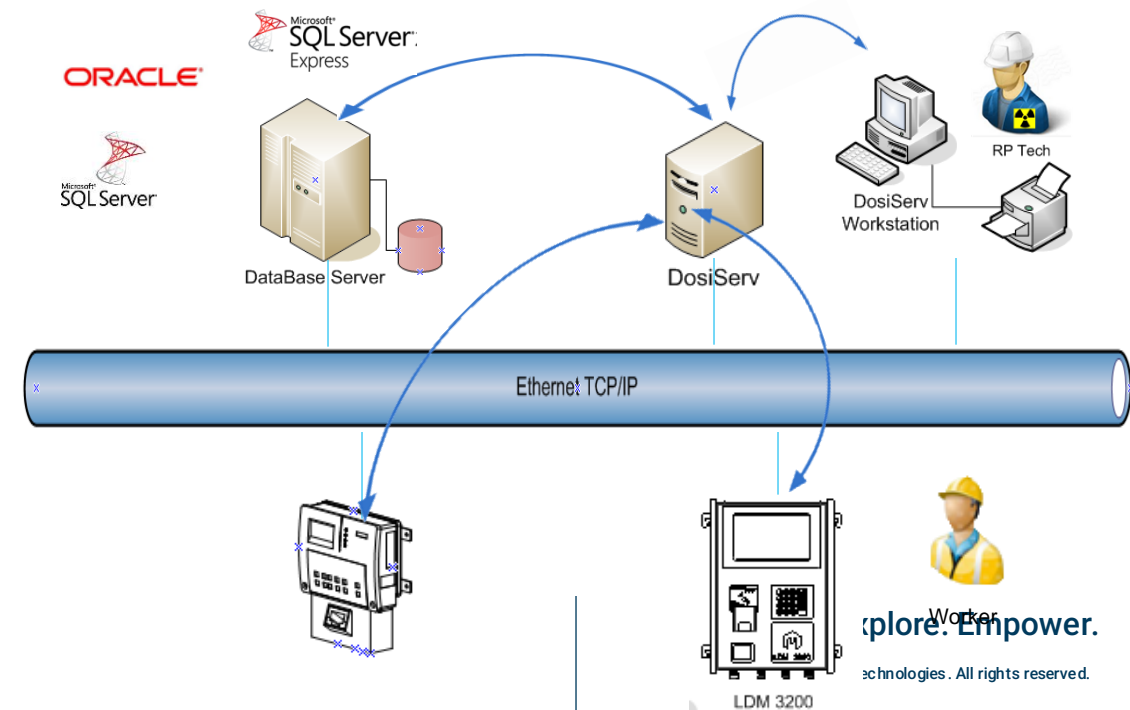


# DIY Reader



# General Architecture

- ☛ The DosiServ dosimetry system operates on the network and uses a database to store all information
    - ☛ The main software reside on a server
    - ☛ Main software can connect to a database server or host its own database
      - ☛ Oracle
      - ☛ SQL Server
      - ☛ SQL Server express
    - ☛ Readers connect to DosiServ through the network
    - ☛ Client station for administration connects to DosiServ
- 
- The diagram illustrates the database connectivity options for the DosiServ system. It features three database logos: Oracle, Microsoft SQL Server, and Microsoft SQL Server Express. A blue arrow points from the Microsoft SQL Server Express logo to a server icon labeled 'DataBase Server'. Another blue arrow points from the Microsoft SQL Server logo to the same server icon. A third blue arrow points from the Oracle logo to the same server icon. The server icon is a tan-colored tower with a blue 'X' on its front panel. To the right of the server is a red cylindrical database icon with a blue 'X' on its side.





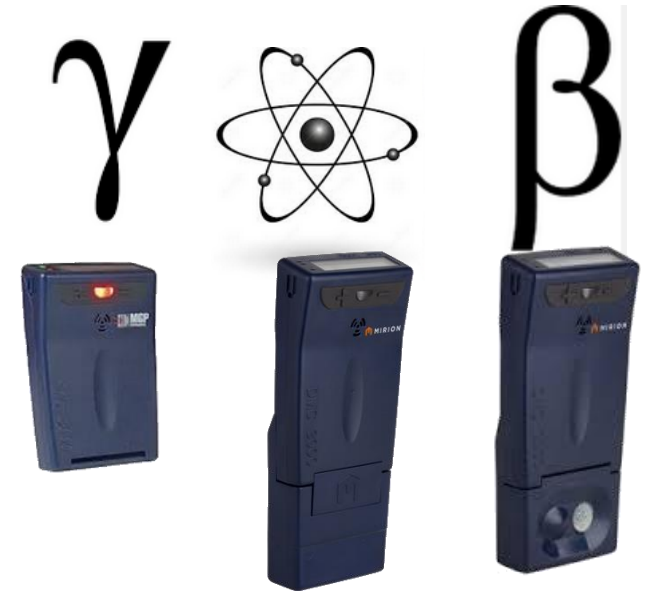
# Readers examples



# Basic Functions

Handle electronic dose data for

- Workers (individual)
- Jobs/RWP
- Various controlled areas (zones)



Offer access control capabilities, in order to check

- Medical/training due dates.
- Worker's accumulated doses versus configurable dose limits.
- Any other worker qualification the Radiation Protection procedure should require



# Basic Functions

- Manages official (TDL/OSL) dose data for workers
  - Can be connected to TLD readers in order to import data
  - Live DIS -1 reader connection
  - Any kind of dose can be created to be monitored (Ex WBC / Eye)
  - Dose records can be checked at access time



# Dig into functionalities

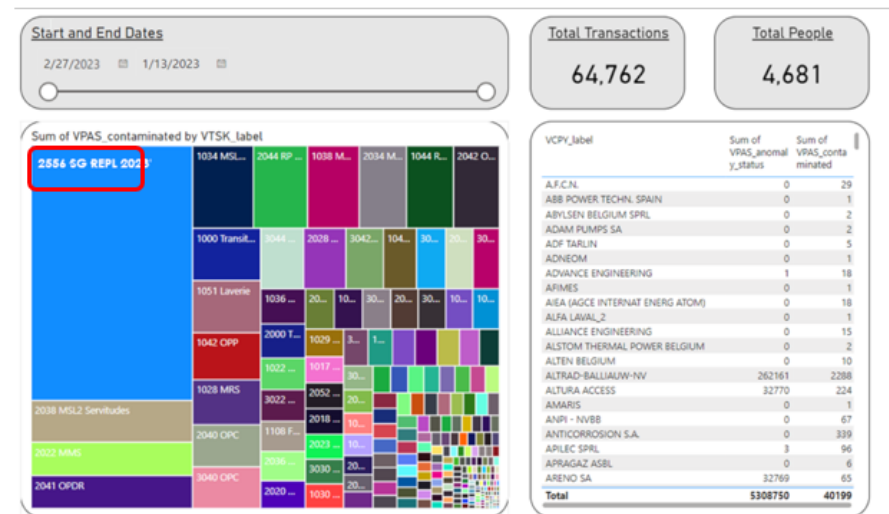


# Monitors connections

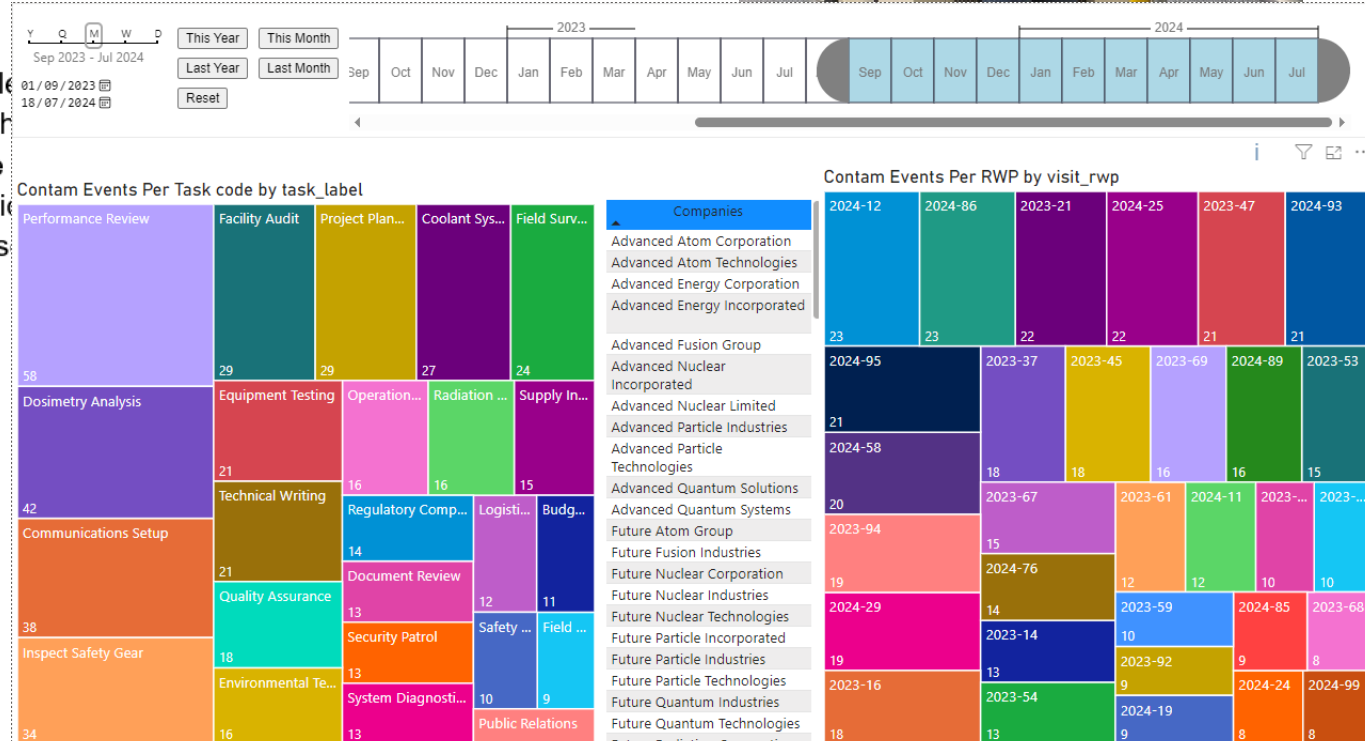
- Option 1 :  
System stores contamination events  
(requires physical connection between a reader and the monitor)
- Option 2 :  
System retrieve measurement from monitors  
(requires "IT" connection with DosiServ)



RP Personnel will be able to create reports based on Contam events and Job codes



In this example JOB 2556 is the generated the of contamination during the obs





# Other Doses

Create and monitor any dose needed

		Annual limit	
Estimated dose		=	
TLD G	TLD Gamma Dose		
TLG N	Passive Neutron Do		
IDLR	Internal measure Off		
TLD L	TLD Lens of eye		
SKIN WB	Skin Dose Whole B	100,000	
WDIS_HP007	DIS HP007 Measur		100,000
WINTERNAL	Internal measure NC		
INSTD	Instadose Gamma		300,000
INTAKE	Intake		
EXTR	Extremity Dose	300,000	

# Electronic Dose v Legal Dose

"Legal" dose can "compete" with Electronic Dose :

Goal : protect the workers not to go over the legal (5 rem) yearly legal limit



Jan	Feb	Mar	Apr	May	
Jan 0,1 rem	Feb 0,0 rem	Mar 0,3 rem	Apr 0,3 rem	May ??? rem	YTD 0,7 rem



DMC 3000

Jan	Feb	Mar	Apr	May	
Jan 0,18 rem	Feb 0,1 rem	Mar 0,4 rem	Apr 0,4 rem	May 0,2 rem	YTD 1,28 rem



# Electronic Dose v Legal Dose

YTD  
0,9 rem



and/or



DMC 3000

NRC FORM 4  
(11-2020)  
10 CFR PART 20



11a. EDEX

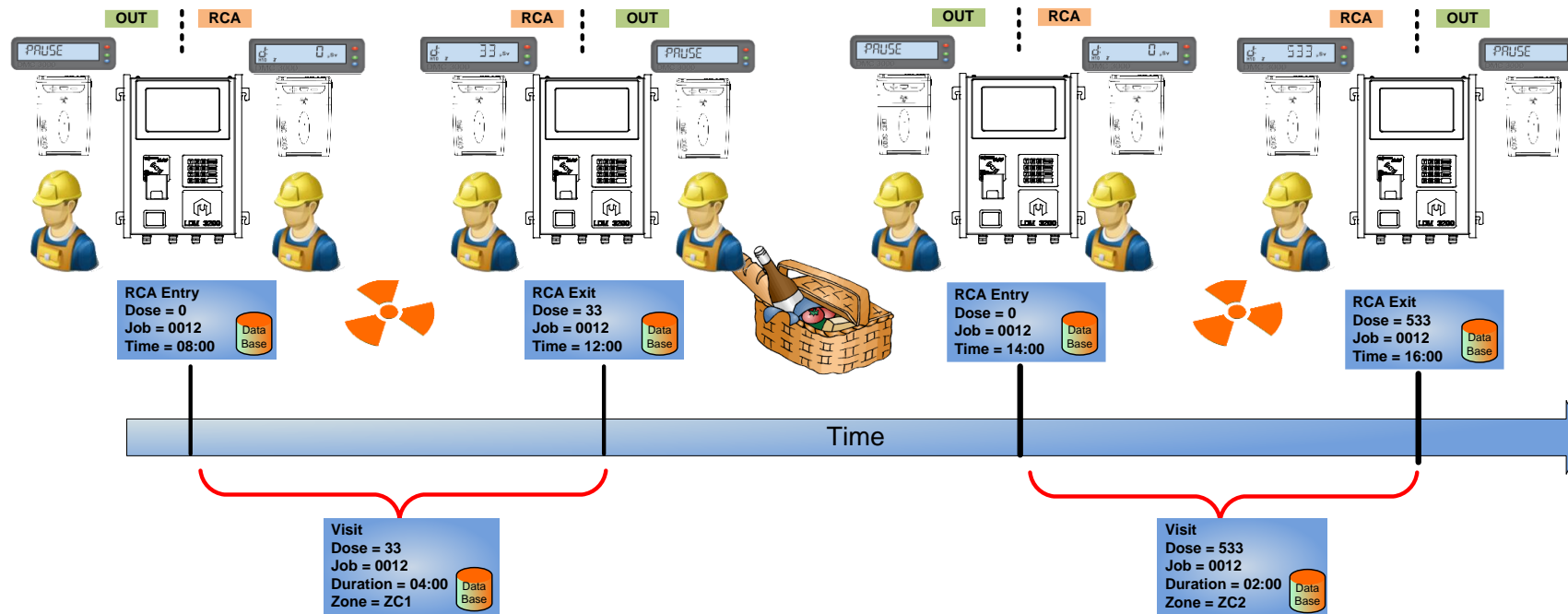
and/or



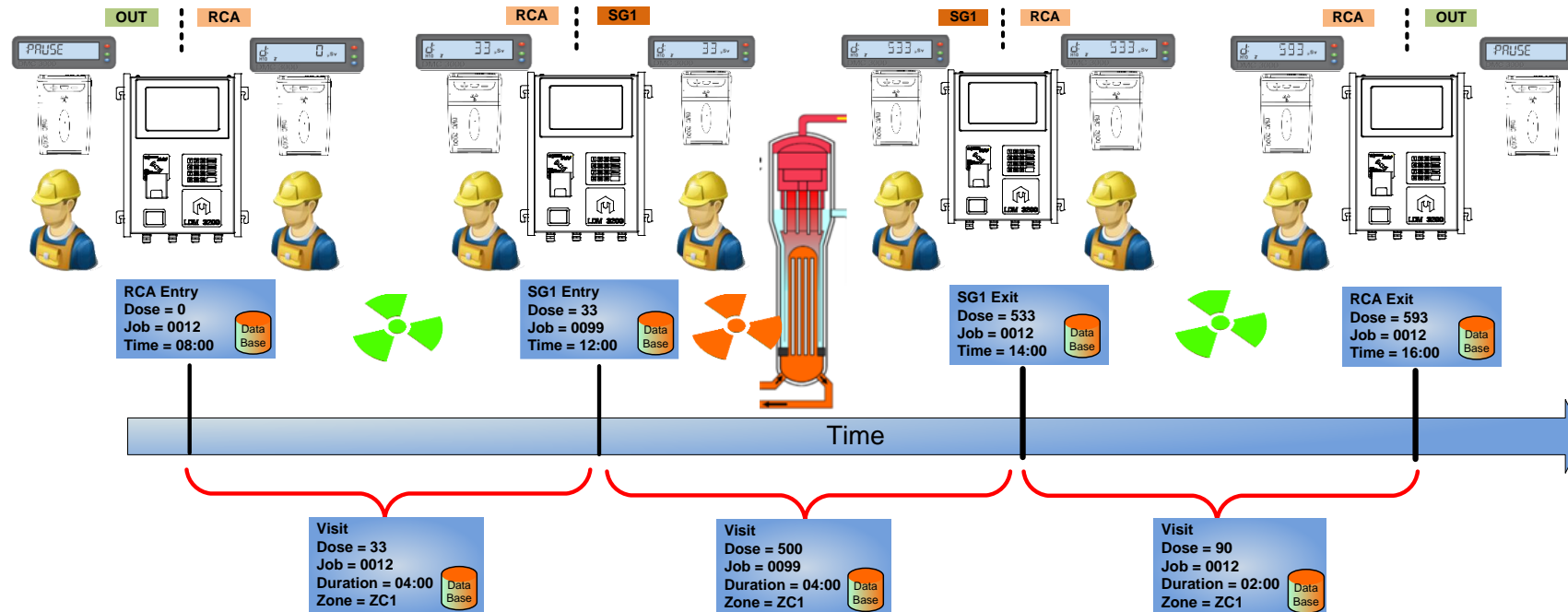
DMC 3000

General dose type information			
Code	Name	Dose type	
ABC	ABC	=	
→ TLD G	TLD Gamma Dose	Deep dose Gamma	
TLG N	Passive Neutron Dose	Deep dose Neutron	
IDL R	Internal measure Official	Internal dose	
TLD L	TLD Lens of eye	Eye Lens dose	
SKIN WB	Skin Dose Whole Body	Skin dose	
WDIS_HP007	DIS HP007 Measure	Skin dose	
WINTERNAL	Internal measure NON OFF	Internal dose	
INST D	Instadose Gamma	Deep dose Gamma	
INTAKE	Intake	Internal dose	
EXTR	Extremity Dose	Extremity dose	
EDEX OFF P	EDEX Dose Gamma Off Pre...	Deep dose Gamma	
CEDE OFF P	CEDE Dos Off Premices	Internal dose	
TRI	TRITIUM	Deep dose Gamma	

# Main concept → Visits

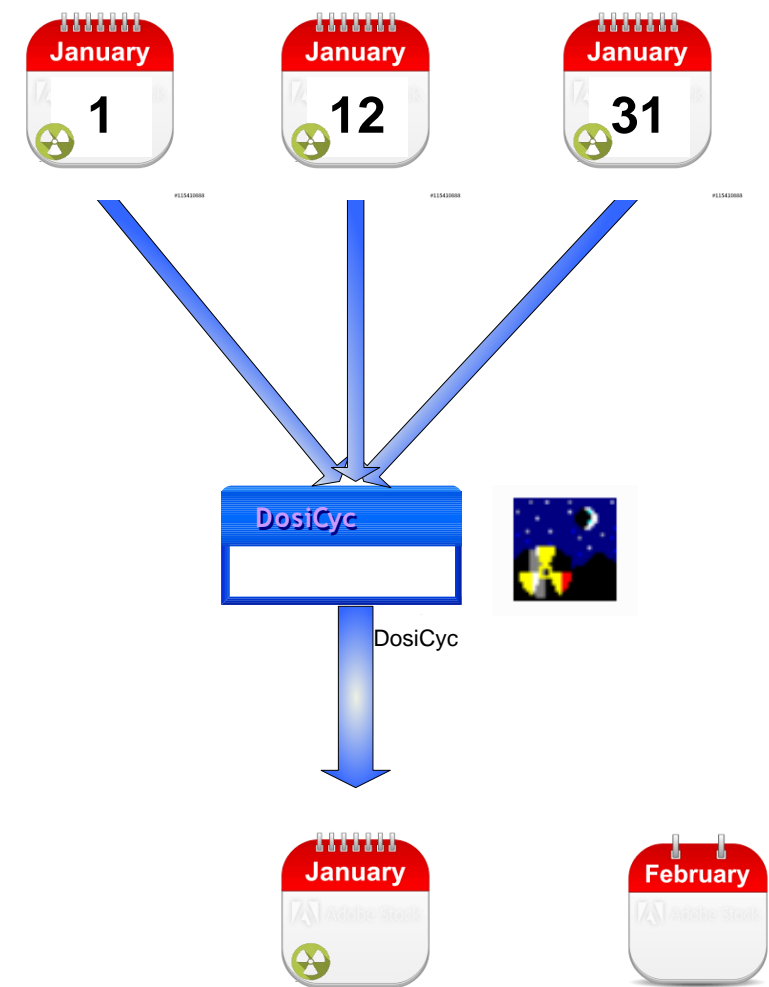
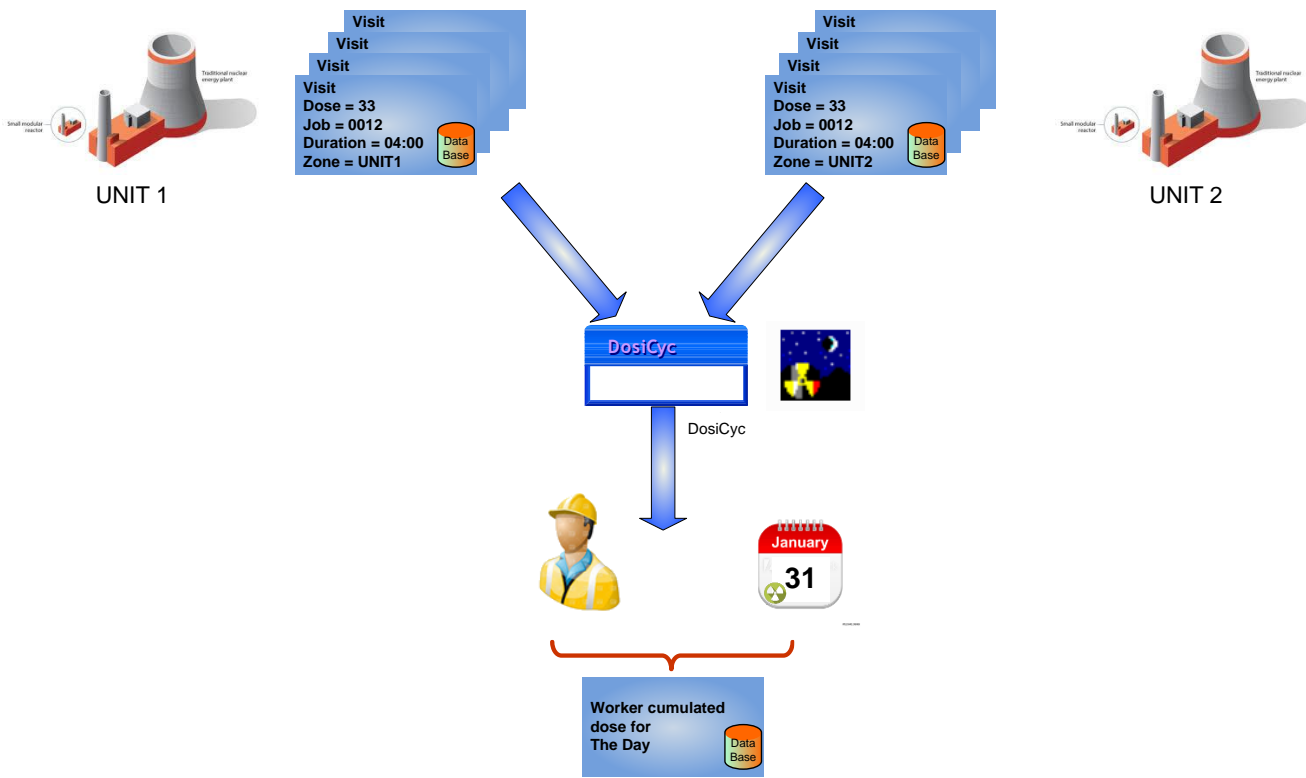


# Main concept → Visits





# Dose calculations



# Qualifications

Record 1 of 4

Drag a column header here to group by that column

Configuration of dynamic criteria					Definition			
Category	Code	Message	Reader message	Sex conce...	Mandatory criteria	Mandatory date	Default value	
ABC	ABC	ABC	ABC	=	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Medical	Medical exam	Examen medical invalide ou éch	EX_MEDICAL INVALIDE	Both	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Training	RESP	Respirator Training and fit test	CALL 887	Both	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Training	Training	Fomation invalide ou échéance ...	FORMATION INVALIDE	Both	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Medical	WBC	WBC invalide ou échéance dép...	WBC INVALIDE	Both	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

- New criteria can be added any time
- Criteria does not need the be always matched

# Dedicated Qualifications

Criteria/qualification can be connected to a RWP (and/or a Task)

Direct of via an instrument

Record 6 of 6

Equipment Type

Label	Measurement device
Minion Electronic Dosimeter	<input checked="" type="checkbox"/>
DIS	<input checked="" type="checkbox"/>
RPL	<input checked="" type="checkbox"/>
RESPIRATOR	<input checked="" type="checkbox"/>
PLASTIC SUIT	<input type="checkbox"/>

Available criteria

Criteria category	Code	Validity period (in ...)
Medical	Medical exam	=
Training	Training	
Medical	WBC	

Assigned Criteria

Criteria category	Code	Validity period (in days)
Training	RESP	

PLASTIC SUIT

Training

RESP

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Record 1 of 1

Record 0 of 0

<-- Previous

Next -->

Cancel

Units for Dose and Rate: mSv; mSv/h

# RWP / JOB (or Both)

🏠 Main difference ➔ Workflow to get the number available

DOSISERV Interface - mgp/localhost - Factory - CONFIG SITE - [RWP information]

File Window Help LDMX20 configuration

Navigation Control bar

Record 3 of 36

Filters

Drag a column header here to group by that column

RWP Code	Operator Code	Revision	Status	Description	Authorized by	Authorization date	HP10 dose sum over estimated d...	Estimated total dose ...	Gamma dose
2024-12	12		0 Authorized	Leak testing of radioactive waste storage tanks.	mgp	04/05/2023		30,000	87,568
2023-14	14		0 Authorized	Calibration of radiation monitoring instruments.	mgp	05/01/2023		35,000	85,709
2023-16	16		0 Authorized	Thermal imaging survey of the turbine area.	mgp	09/05/2023		40,000	92,522
2023-21	21		0 Authorized	Quality control checks of personal protective equipment.	mgp	31/08/2023		52,500	96,576
2024-19	19		0 Authorized	Quality control checks of personal protective equipment.	mgp	11/03/2023		47,500	76,876
2024-25	25		0 Authorized	Calibration of radiation monitoring instruments.	mgp	01/03/2023		62,500	84,427
2024-24	24		0 Authorized	Leak testing of radioactive waste storage tanks.	mgp	11/06/2023		60,000	78,290
2024-29	29		0 Authorized	Periodic health physics survey of the facility.	mgp	28/06/2023		72,500	91,491
2023-36	36		0 Authorized	Review and update of radiation safety procedures.	mgp	11/07/2023		90,000	96,565
2023-37	37		0 Authorized	Safety inspection of fuel handling system.	mgp	01/01/2023		92,500	89,795
2023-45	45		0 Authorized	Verification of shielding effectiveness in high radiation zones.	mgp	16/04/2023		112,500	92,258
2023-47	47		0 Authorized	Routine maintenance of cooling system components.	mgp	25/08/2023		117,500	93,085
2023-53	53								

DOSISERV Interface - mgp/localhost - Factory - CONFIG SITE - [Task information]

File Window Help LDMX20 configuration

Navigation Control bar

Record 1 of 32

Search Parameters

Task No. Valid from Valid To ☐ Auto search

Drag a column header here to group by that column

General task information		Validity period (in days)			Task dosimetry				Maximum doses	
Task No.	Task name	valid from	valid to	Suspended	HP10 dose over estimated	Estimated to...	HP10G tot...	Dose duration	HP10G max dose	HP10G max rate
1221	Document Review	29/07/2023	01/08/2024	<input type="checkbox"/>		5,000	3,469	445:36:53	0,686	1,000
1457	Radiation Monitoring	23/10/2023	01/08/2024	<input checked="" type="checkbox"/>		5,000	2,089	414:10:00	0,569	1,000
1588	Logistics Planning	16/08/2023	08/01/2024	<input type="checkbox"/>		8,000	2,406	356:51:00	0,577	1,000
2229	System Diagnostics	12/06/2023	12/10/2024	<input type="checkbox"/>			3,480	399:11:01	0,699	1,000
2618	Field Survey Building 1	17/01/2023	09/08/2024	<input type="checkbox"/>		8,000	4,888	417:24:00	0,688	1,000
2738	Field Survey	20/04/2023	16/08/2024	<input type="checkbox"/>			1,440	427:04:37	0,413	1,000

# Budgets

Task information

Task 2618Field Survey Building 1

Information

Daily Doses

Dashboard

General task information

Task No.

2618

Task name

Field Survey Building 1

SISERI Key

Comments

Generic

☐

Validity period (in days)

valid from

17/01/2023

valid to

09/08/2024

Suspended

☐

Expected total dose and duration of task

Estimated total dose HP10

8.000

Estimated total dose HP007

Estimated total duration

Access denied if estimated dose is reached

☐

Dose and duration limit for individual worker

HP10 estimated individual dose limit

0.500

HP007 / estimated individual dose limit

Estimated individual duration

Access control on individual dose/duration

☐

Min. dose credit necessary for using the task

HP10 minimum dose

HP007 minimum dose

Dose alarm setpoints

HP10 dose threshold

0.100

HP007 dose alarm

Neutron fraction (%)

Dose pre-alarm setpoints

HP10GN dose pre-alarm

0.080

HP007 dose pre-alarm

Rate alarm setpoints

HP10G dose rate alarm

1.000

HP10N dose rate alarm

HP007 dose rate alarm

Maximum duration alarm

Task dose

HP10G total dose

4.888

HP10N total dose

HP007 total dose

HP3 total dose

Dose duration

417:24:00

Neutron coefficient

Access Control

Allowed Dosimeters types

All

Record 5 of 32

- Home Global budget for the Job
- Home Access still allowed ?
- Home Dose per individual for that Job
- Home Access still allowed ?









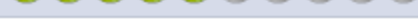

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# Budgets

ag a column header here to group by that column

General task information		Validity period (in days)			Task dosimetry			
Task No.	Task name	valid from	valid to	Suspended	HP10 dose over estimated	Estimated to...	HP10G tot...	Do
abc	abc	=	=			=	=	=
5999	Project Planning	16/05/2023	06/05/2024	<input type="checkbox"/>		1,000	2,903	
8171	Performance Review	12/06/2023	28/11/2024	<input type="checkbox"/>		2,000	3,661	
3179	Equipment Testing	17/06/2023	08/05/2024	<input type="checkbox"/>		4,000	3,647	
5902	Inspect Safety Gear	06/10/2023	24/03/2024	<input type="checkbox"/>		5,000	4,020	
5160	Coolant System Check	27/11/2023	21/05/2024	<input type="checkbox"/>		6,000	4,377	
1221	Document Review	29/07/2023	01/08/2024	<input type="checkbox"/>		5,000	3,475	
2618	Field Survey Building 1	17/01/2023	09/08/2024	<input type="checkbox"/>		8,000	4,888	
3884	Safety Briefing	20/09/2023	11/01/2024	<input type="checkbox"/>		4,000	3,052	
7570	Technical Writing	15/07/2023	20/06/2024	<input type="checkbox"/>		4,000	1,866	
8058	Inspect Safety Gear	12/04/2023	11/04/2024	<input type="checkbox"/>		4,000	1,838	
1457	Radiation Monitoring	23/10/2023	01/08/2024	<input checked="" type="checkbox"/>		5,000	2,089	
1588	Logistics Planning	16/08/2023	08/01/2024	<input type="checkbox"/>		8,000	2,406	
8408	Hazard Assessment	12/12/2023	10/01/2024	<input type="checkbox"/>			1,399	

# DMC Selection

WHAT DMC are to be used for the JOB/RWP

Task information

Task 2618 Field Survey Building 1

InformationDaily DosesDashboard

General task information

Task No.2618

Task nameField Survey Building 1

SISERI Key

Comments

Generic☐

Validity period (in days)

valid from17/01/2023

valid to09/08/2024

Suspended☐

Expected total dose and duration of task

Estimated total dose HP108.000

Estimated total dose HP007

Estimated total duration

Access denied if estimated dose is reached☐

Dose and duration limit for individual worker

HP10 estimated individual dose limit0.500

HP007 estimated individual dose limit

Estimated individual duration

Access control on individual dose/duration☐

Min. dose credit necessary for using the task

HP10 minimum dose

HP007 minimum dose

Dose alarm setpoints

HP10 dose threshold0.100

HP007 dose alarm

Neutron fraction (%)

Dose pre-alarm setpoints

HP10GN dose pre-alarm0.080

HP007 dose pre-alarm

Rate alarm setpoints

HP10G dose rate alarm1.000

HP10N dose rate alarm

HP007 dose rate alarm

Maximum duration alarm

Task dose

HP10G total dose4.888

HP10N total dose

HP007 total dose

HP3 total dose

Dose duration417:24:00

Access Control

Allowed Dosimeters typesAll

Access Control

Allowed Dosimeters typesAll

Select All / None

☐ Gamma

☐ Neutron

☐ Beta

☐ GammaContrib

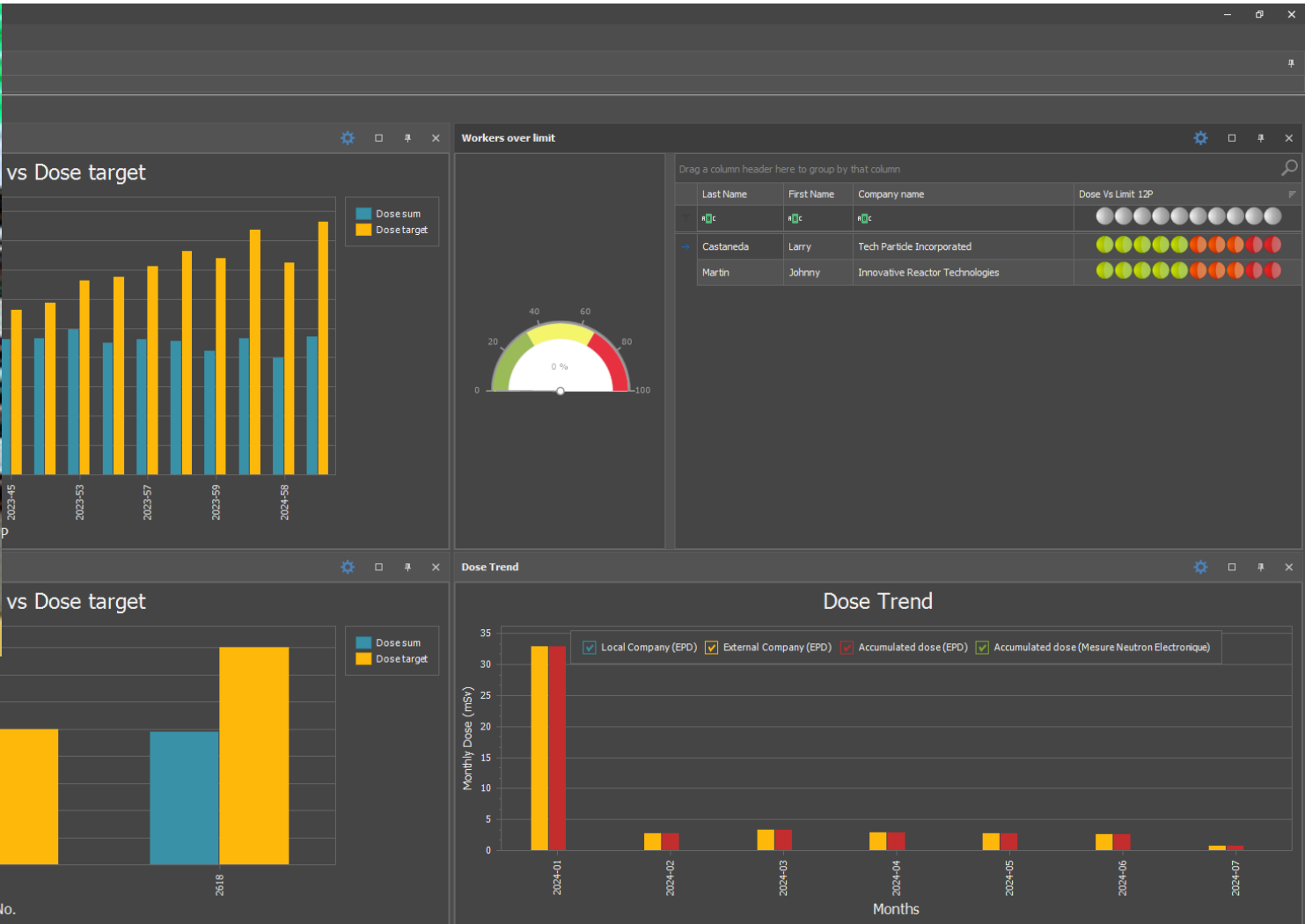
☐ NFC

OK

Cancel

# DaskBoard

The **daskBoard** is a standalone application that do not need human interaction



# Track a DMC

➤ Based on serial number quickly access to

When it was used for the last time  
Where it was used for the last time  
Who used for the last time  
Last Job it was used for  
Zoom in

Drag a column header here to group by that column

Dosimeter	Tracking information				Last or current worker information				Additional information				
Dosimeter	Currently in use	Current area (name)	Last use	Last reader ...	Worker ID	Last name	First name	Company name	TLD number	Task No.	Task name	RWP opera...	RWP
904479			03/05/2024 20:44:00	Unit 1 : RCA...	1203	West	Jimmy	Quantum Quantum Gro...	5602	Performanc...	7		
904479			12/12/2023 16:51:00	Unit 1 : RCA...	6351	Stephen		Innovative Particle Sys...	8058	Inspect Saf...	21		2023-21

Dosimeter last journey description

Drag a column header here to group by that column

Last journey description						Additional information						
Date/Time of Passage	Passage type	Passage status	Reader name	Origin area label	Destination area label	TLD number	Task No.	Task name	RWP operator code	RWP		
12/12/2023 16:21:00	Area exit	Passage Done	Unit 1 : RCA Entry an...	UNIT 1 Main RCA	OUT		8058	Inspect Safety Gear	21	2023-2		
12/12/2023 15:58:00	Area exit	Passage Done	Unit 1 : RCA Entry an...	UNIT 1 Main RCA	OUT		6351	Communications Set...	94	2023-5		
12/12/2023 15:29:00	Area exit	Passage Done	Unit 1 : RCA Entry an...	UNIT 1 Main RCA	OUT		4067	Operational Testing	58	2024-5		
12/12/2023 15:27:00	Area entry	Passage Done	Unit 1 : RCA Entry an...	OUT	UNIT 1 Main RCA		6351	Communications Set...	94	2023-5		

# Smart offline

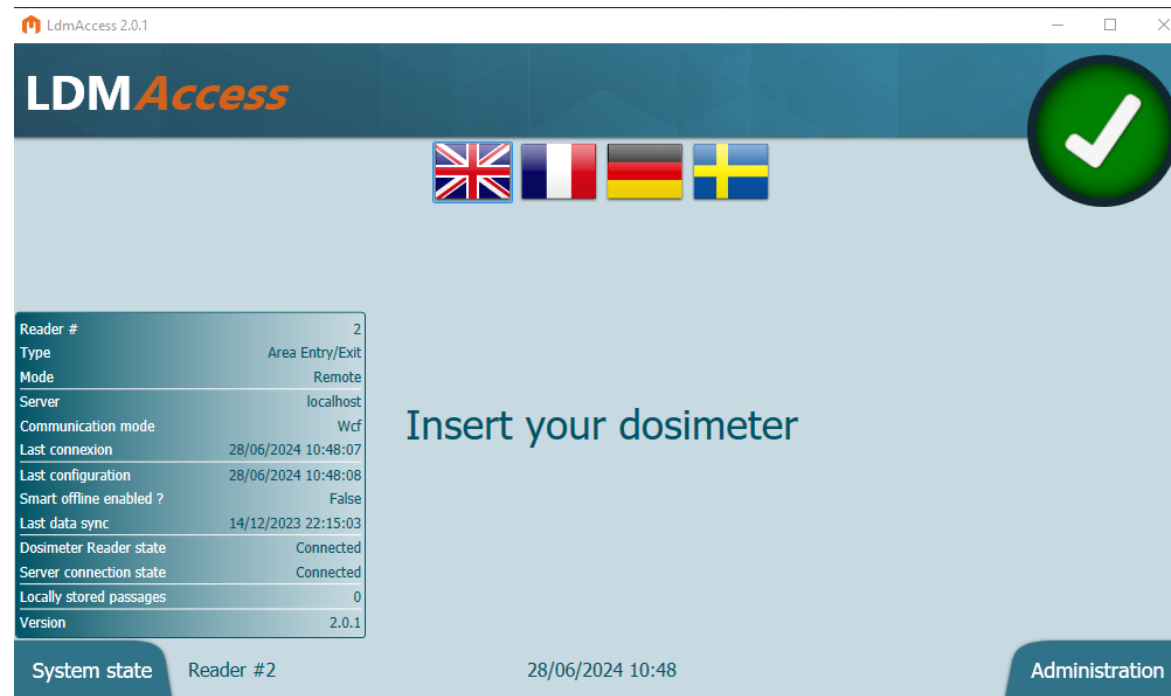
- Improvement to make the reader smart offline even smarter

*Check worker/task/RWP authorizations*

*Offer list selection*

*Program dosimeters based on Job code setting*

*Easy/on demand update*





# Help List on Reader at issuing time

LdmAccess 2.0.1

LDMAccess

Enter RWP:

02 (Inspection of reactor containment vessel

03 (Review and update of radiation safety pr

06 (Periodic health physics surve

11 (Quality control checks of per

12 (Leak testing of radioactive w

19 (Quality control checks of per

24 (Leak testing of radioactive w

25 (Calibration of radiation monit

29 (Periodic health physics surve

58 (Quality control checks of per

76 (Assessment of radiation dose

85 (Leak testing of radioactive w

86 (Verification of shielding effec

93 (Safety inspection of fuel han

95 (Routine maintenance of cool

OK

Cancel

System state

Reader #3

31/07/2024 09:09

LdmAccess 2.0.1

LDMAccess

Enter your job code:

1221 (Document Review)

2229 (System Diagnostics)

2618 (Field Survey Building 1)

2738 (Field Survey)

3505 (Environmental Testing)

6351 (Communications Setup)

6445 (Dosimetry Analysis)

7862 (Public Relations)

8171 (Performance Review)

8303 (System Upgrade)

OK

Cancel

System state

Reader #3

31/07/2024 09:10

Administration

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# Personnal Limits

Worker details

Record 1 of 1000

Last Name:MrCastanedaFirst nameLarryInsurance No.ID Number1053

Information

Dosimetry

Access

Additional fields

Tasks / Areas / Rwp

Visits

Equipment

DIS

Dashboard

Enforce access to controlled-area

☐ Enforced Access

End date

Correction Coeff HP10G-HP10N

HP007

Individual alarm threshold

Alarm threshold for dose rate and duration

Maximum duration thresh...

Dose-"Limits"

Worker limits

Validity end date

Daily limits03/08/2024

Monthly limits31/08/2024

HP10

HP10 daily limit0.200

HP10 7 days limit

HP10 30 days limit

HP10 life limit

HP10 P limit

HP10 3P limit

HP10 annual limit1.000

HP10 5 years limit

HP007

HP007 daily limit

HP007 7 days limit

HP007 30 days limit

HP007 life limit

HP007 P limit

HP007 XP limit

HP007 annual limit

HP007 5 years limit

CONTRACTOR

HP10

HP10 daily limit

HP10 7 days limit

HP10 30 days limit

HP10 life limit

HP10 P limit

HP10 3P limit

HP10 annual limit

HP10 5 years limit

HP007

HP007 daily limit

HP007 7 days limit

HP007 30 days limit

HP007 life limit

HP007 P limit

HP007 XP limit

HP007 annual limit

HP007 5 years limit

Dose Credits

HP10 - Daily credits

HP10 - daily credit0.200

HP10 - 7 days credit

HP10 - 30 days credit

HP10 - Life credit

HP10 - Monthly credits

HP10 - 3P credit

HP10 - annual credit-1.460

HP10 - 5 years credit

HP007 - Daily credits

HP007 - daily credit

HP007 - 7 days credit

HP007 - 30 days credit

HP007 - Life credit

HP007 - Monthly credits

HP007 - 3P credit

HP007 - annual credit

HP007 - 5 years credit

Limits

Daily dose

Monthly Doses

External Doses

Initial doses

Dosimetric summary

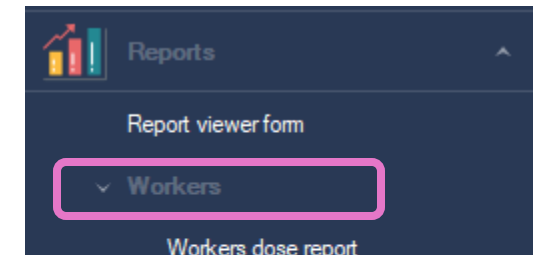
Units for Dose and Rate: mSv, mSv/h

# Reporting (Part1)

There are many ways to perform reporting in DosiServ

DosiServ build in reports

Local exports

A screenshot of the 'Workers monthly doses' report interface in DosiServ. The interface includes a search bar, filters, and a table of worker data. A pink rectangular box highlights the 'Export' button and the 'Export to XLSX' option in the dropdown menu. The table has columns for Lastname, First name, Worker ID, Worker external ID, SSC NUM, Period start date, Period end date, Dose, Company label, and Measure. The table contains 20 rows of data.

Lastname	First name	Worker ID	Worker external ID	SSC NUM	Period start date	Period end date	Dose	Company label	Measure
Taylor	Ronald	2896	901108		01/01/2024	31/01/2024	0.098	Advanced Particle L.	HP10G
Campbell	Dominique	4113	150846		01/01/2024	31/01/2024	0.396	Prime Fusion Incorp...	HP10G
Nolan	John	4061	669628		01/01/2024	31/01/2024	0.388	Prime Energy Incorp...	HP10G
Mosley	Brandon	4056	311947		01/01/2024	31/01/2024	0.404	Integrated Reactor L.	HP10G
Oliver	Adrienne	4019	785		01/01/2024	31/01/2024	0.392	Prime Energy Incorp...	HP10G
Roman	James	4001	63		01/01/2024	31/01/2024	0.378	Global Atom Limited	HP10G
Jefferson	Christine	5100	31		01/01/2024	31/01/2024	0.166	Innovative Nuclear ...	HP10G
Hines	Colleen	5005	47	700	01/01/2024	31/01/2024	0.208	Prime Particle Limited	HP10G
Lucero	Antonio	5021	34	371	01/01/2024	31/01/2024	0.224	Future Reactor Tec...	HP10G
Romero	Seth	5075	37	312	01/01/2024	31/01/2024	0.241	Global Reactor Corp...	HP10G
King	Casey	5046	99	162	01/01/2024	31/01/2024	0.177	Advanced Energy In...	HP10G
Matthews	David	5113	17	336	01/01/2024	31/01/2024	0.199	Innovative Fusion G...	HP10G
Crosby	Kristen	1198	22	380	01/01/2024	31/01/2024	0.212	Advanced Nuclear L.	HP10G
Hall	Dale	1162	14	188	01/01/2024	31/01/2024	0.205	Quantum Quantum L.	HP10G
Guzman	Emily	1409	63479		01/01/2024	31/01/2024	0.190	Global Nuclear Incor...	HP10G
Perez	Thomas	1332	323421		01/01/2024	31/01/2024	0.225	Tech Particle Corpor...	HP10G
Wade	Lisa	1463	554166		01/01/2024	31/01/2024	0.273	Global Energy Soluti...	HP10G
Davis	Pamela	1431	427839		01/01/2024	31/01/2024	0.177	Innovative Fusion T...	HP10G
Parker	Kenneth	2032	263678		01/01/2024	31/01/2024	0.146	Global Reactor Limit...	HP10G
Davis	Kimberly	2144	318372		01/01/2024	31/01/2024	0.149	Prime Radiation Gro...	HP10G
Santiago	Felicia	2013	698365		01/01/2024	31/01/2024	0.158	Future Reactor Limit...	HP10G
Smith	Scott	2042	847440		01/01/2024	31/01/2024	0.304	Advanced Particle L.	HP10G
Williams	Kimberly	2040	671618		01/01/2024	31/01/2024	0.146	Prime Particle Incorp...	HP10G
Robinson	Angela	2128	199679		01/01/2024	31/01/2024	0.150	Innovative Energy S...	HP10G
Hill	Renee	2101	300868		01/01/2024	31/01/2024	0.139	Quantum Quantum ...	HP10G
Holland	James	2071	635753		01/01/2024	31/01/2024	0.133	Innovative Particle ...	HP10G
West	Jimmy	1203	688635		01/01/2024	31/01/2024	0.439	Quantum Quantum ...	HP10G
Gordon	Adam	1022	201276		01/01/2024	31/01/2024	0.206	Innovative Fusion T...	HP10G

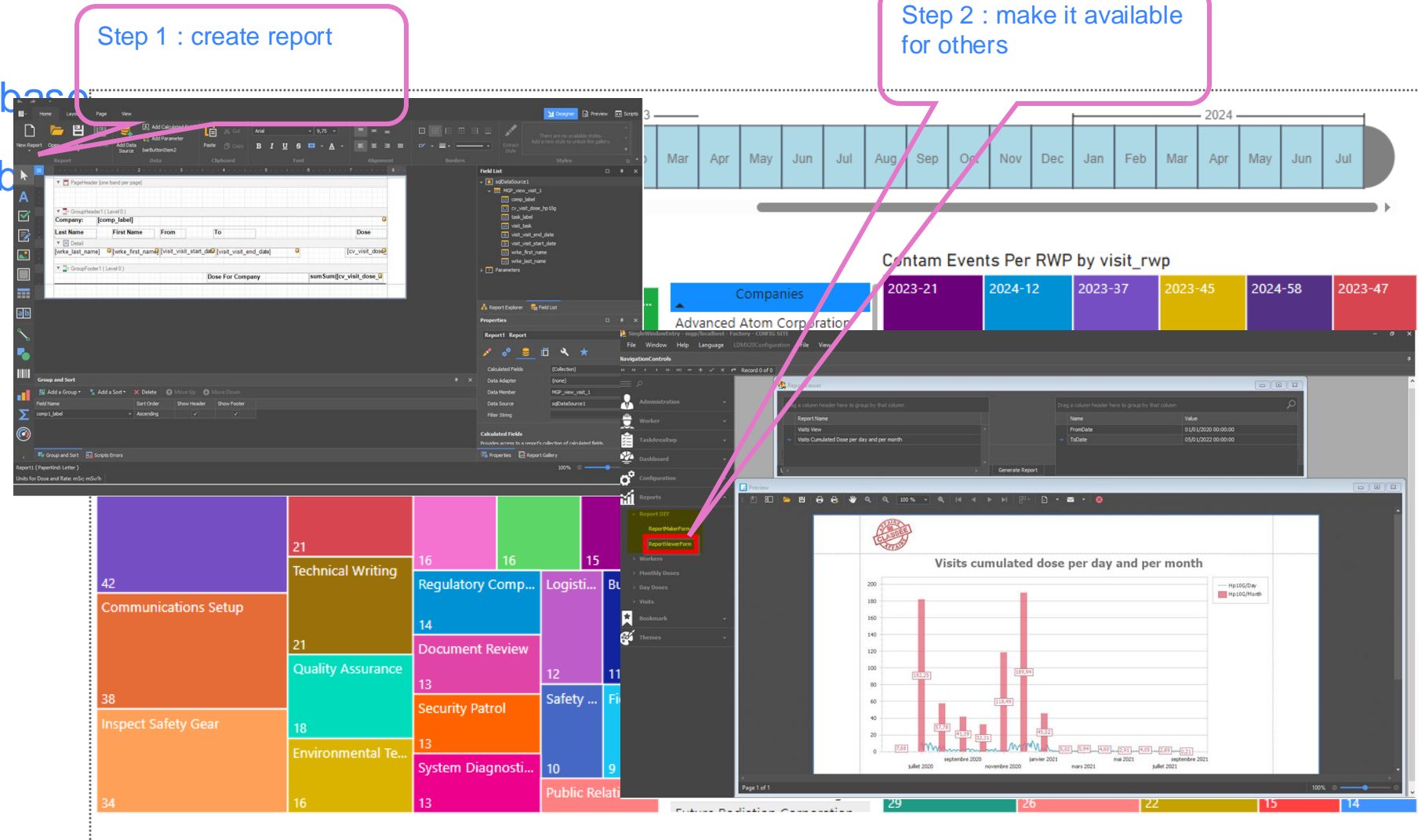
# Reporting (Part 2)

## Training

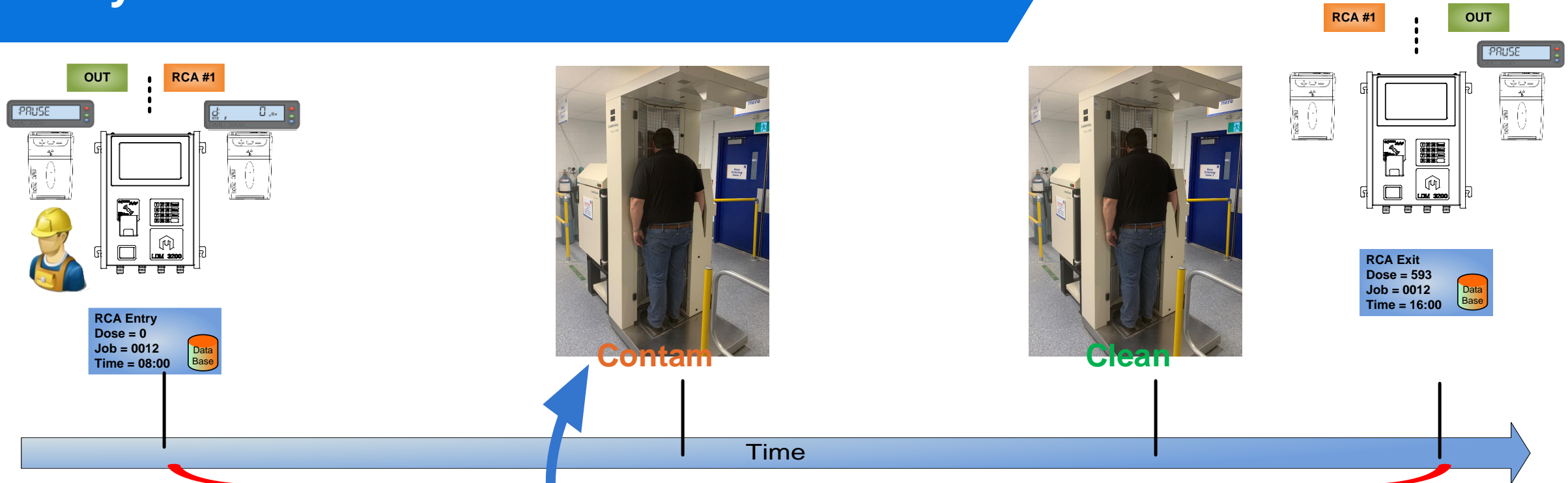
Excel direct into the database

Power BI direct into database

Dedicated tool



# Body monitors measurements



1. The Worker switches on Dosimeter and enters the zone
  2. When exiting the Zone the worker will show a contam event in the monitor
  3. Workers take necessary actions and finally exits
  4. Worker witch of dosimeter
- DosiServ will record a visit for that person and the Job code selected at entry time

Visit  
Dose = 593  
Job = 0012  
Duration = 08:00  
Zone = RCA#1

The system will propose its best estimate in order to connect the **visit** with the **Contam Event AND** with the **measurement results**

# Body monitors measurements

SingleWindowEntry - mgp/localhost - Factory - CONFIG SITE - [Contamination Measurements]

File Window Help LDMX20 configuration

Navigation Control bar

Record 1 of 101

Search

Worker ID External ID Last Name First Name

Start Date End Date Contamination Portal ID Local companies

Company Section Task Area name Ssc number

Clear

Remember Values

Auto-Search

Search

Worker information

Workers list

Tracking list

List of visits

List of passages

Groups of workers

Daily doses

External measurements

Monthly Doses

Contamination measurements

Incorrect passages

Workers Doses Management

Worker Transfer

Task/Area/RWP

Dashboard

Configuration

Contamination information

Contamination date Portal Id

18/07/2024 12:54:00 Argo5 U

18/07/2024 11:05:00 Argo5 U

18/07/2024 10:59:00 Argo5 U

07/07/2024 23:18:00 Argo5 U

07/07/2024 21:11:00 Argo5 U

07/07/2024 20:04:00 Argo5 U

07/07/2024 19:42:00 Argo5 U

07/07/2024 17:31:00 Argo5 U

07/07/2024 17:02:00 Argo5 U

07/07/2024 14:37:00 Argo5 U

07/07/2024 13:42:00 Argo5 U

07/07/2024 13:39:00 Argo5 U

07/07/2024 09:19:00 Argo5 U

07/07/2024 09:17:00 Argo5 U

07/07/2024 07:59:00 Argo5 U

07/07/2024 05:54:00 Argo5 U

07/07/2024 00:58:00 Argo5 U

06/07/2024 22:57:00 Argo5 U

06/07/2024 20:49:00 Argo5 U

06/07/2024 19:01:00 Argo5 U

06/07/2024 15:20:00 Argo5 U

Worker contamination detail

Record 5 of 101

General worker information

Last Name Lopez

First Name Melinda

Worker Id 1111

External ID of the worker 776650

Company name Global Atom Limited

Section code

Section name

Social Security Number

Worker's health physics category A

Contamination information

Contamination date 07/07/2024 21:11:00

Portal Id Argo5 Unit1 1 of 3

Position 1

Import date 22/07/2024

Model Argos5\_374

Sanction Low Contamination

Foot Detectors

DETECTOR 01 BETA 0,704 Cps Low Contamination

DETECTOR 02 BETA 1,163 Cps

Leg Detectors

Body Detectors

Side Detectors

Hand Detectors

Arm Detectors

Top of head Detectors

Shoe Detectors

Frisker Detectors

Task Co...

Task name

Area

24 11:05:12 1221 Document Review CZ

24 10:59:54 2229 System Diagnostics CZ

24 23:08:00 1588 Logistics Planning RCA U1

24 21:11:00 2229 System Diagnostics RCA U1

24 20:04:00 4894 Security Patrol RCA U1

24 19:42:00 3505 Environmental Tes RCA U1

24 17:31:00 2738 Field Survey RCA U1

24 17:02:00 3884 Safety Briefing RCA U1

24 14:37:00 2921 Supply Inventory RCA U1

24 13:42:00 4894 Security Patrol RCA U1

24 13:39:00 5160 Coolant System Ch RCA U1

24 09:19:00 4067 Operational Testing RCA U1

24 09:17:00 1588 Logistics Planning RCA U1

24 07:59:00 1457 Radiation Monitori RCA U1

24 05:54:00 8171 Performance Revi RCA U1

24 00:58:00 RCA U1

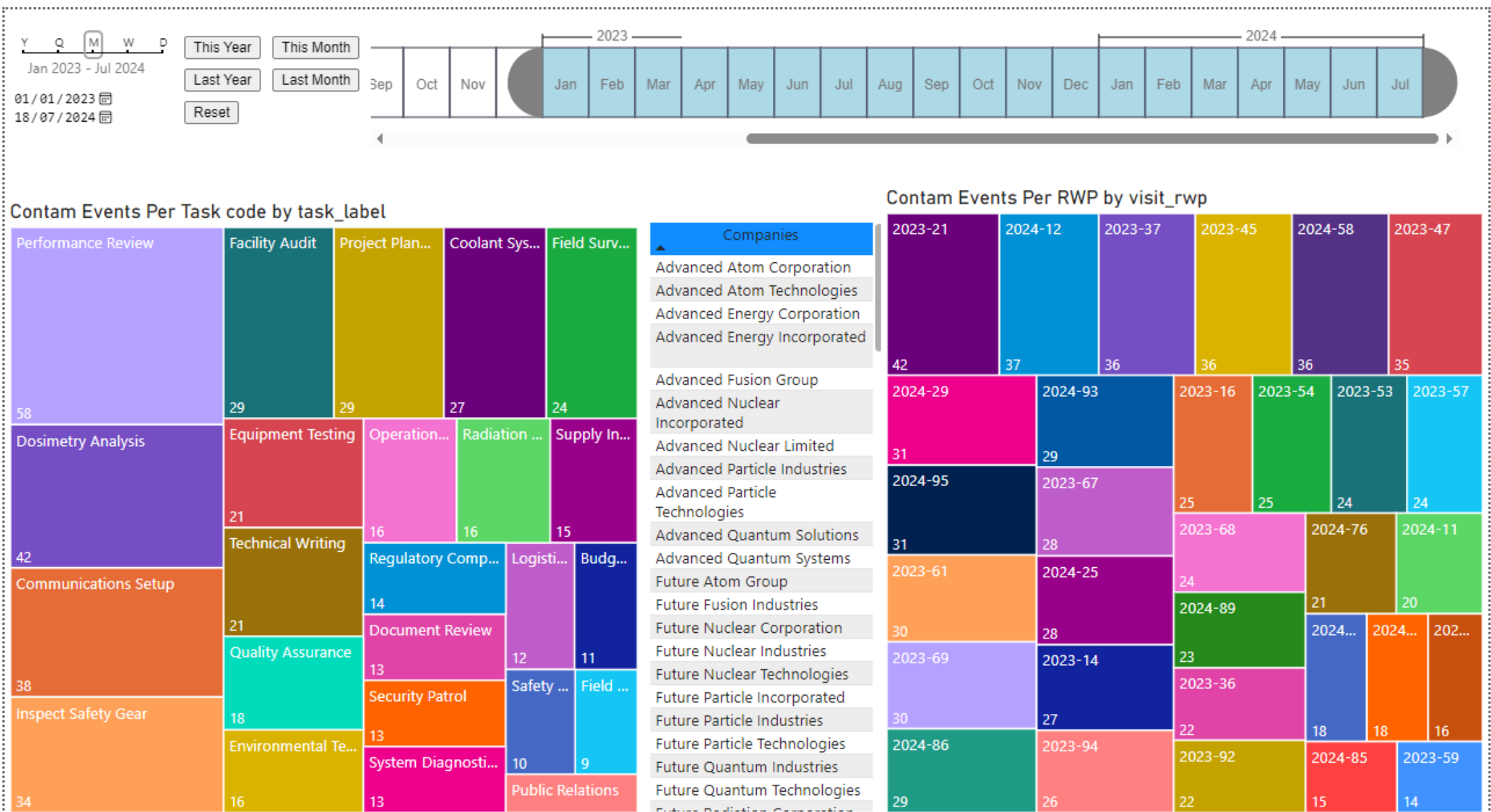
24 22:57:00 1457 Radiation Monitori RCA U1

24 20:49:00 3505 Environmental Tes RCA U1

24 19:01:00 5602 Performance Revi RCA U1

24 15:20:00 5602 Performance Revi RCA U1

# Body monitors measurements





# Coming Soon





# FORM 4 / FORM 5

⏪ ⏩ ⏴ ⏵ ⏶ ⏷ ⏸ ⏹ ⏺ ⏻ ⏼ ⏽ ⏾ ⏿

✓ ✗

Record 1 of 3

Last Name: First name Insurance No. ID Number

Mr Anderson Kelly 19001117 9969

Information

Dosimetry

Access

Additional fields

Tasks / Areas / Rwp

Visits

Equipment

DIS

Dashboard

Contamina...

Hide Column

Hide Column

Show all

Electronic dosimetric summary															
Dose type	HP10G	HP10N	HP10	HP007	HP3	Officielle	Complement	Estimée	Complement	Limit	HP10 difference	HP007 difference	HP10 percent	Official difference	Officielle
Daily dose															
Day	0,000	0,000	0,000	0,000	0,000	0,000				50,000	50,000		0,000		
7 days	0,000	0,000	0,000	0,000	0,000	0,000									
30 days	0,000	0,000	0,000	0,000	0,000	0,000									
Monthly doses															
1 Month	0,000	0,000	0,000	0,000	0,000	0,000	0,000	0,000	0,000						
3 mon...	0,000	0,000	0,000	0,000	0,000	0,000	0,000	0,000	0,000						
Year	33,000	0,000	33,000	0,000	0,000	833,000	0,000	833,000	0,000	1000,000	967,000		3,300	167,000	
5 years	544,870	0,000	544,870	0,000	0,000	833,000	0,000	1344,870	511,870						
Life dose															
Life d...	544,870	0,000	544,870	0,000	0,000	833,000		1344,870							


Contributive doses								Others
Dose type	TLD G	TLG N	IDLR	INTAKE	TRI	TEDEX		
Monthly doses								
1 Month	0,000	0,000	0,000	0,000	0,000	0,000		
3 mon...	0,000	0,000	0,000	0,000	0,000	0,000		
Year	0,000	0,000	0,000	0,000	0,000	833,000		
5 years	0,000	0,000	0,000	0,000	0,000	833,000		
Life dose								
Life d...	0,000	0,000	0,000	0,000	0,000	833,000		

## Form 40

The screenshot shows the 'Reports' section of a 'Report viewer form'. The background is blue with white text. At the top left, there is a logo with three vertical bars in yellow, red, and green. The word 'Reports' is in large white font. Below it, 'Report viewer form' is in smaller white font. A list of report types is visible: '20 minutes. This information is...', 'information is required to record...', 'exposure does not exceed', 'y, and Information Collections', '20565-0001, or by e-mail to', 'nation and Regulatory Affairs', 'h Street NW, Washington, DC', 'sponsor, and a person is not', 'ing or requiring the collection'. Below this list, there are four report type buttons: 'F BIRTH', '00', 'ROUTINE', 'PSE', 'CODE', '000', 'ROUTINE'. A pink rounded rectangle highlights the 'ROUTINE' button under 'CODE'.

# FORM 4 / FORM 5

## Form 5 Output

NRC FORM 5 (01-2021) 10 CFR PART 20				U.S. NUCLEAR REGULATORY COMMISSION		APPROVED BY OMB	
 <b>OCCUPATIONAL DOSE RECORD FOR A MONITORING PERIOD</b>				Estimated burden per response used to ensure that doses to annually report individual occupational regulatory limits. Send comments to: Branch (T-6 A10M), U.S. NRC, Infocollects.Resource@nrc.gov (3150-0005), Attn: Desk Office 20503; e-mail: oia_submission@nrc.gov required to respond to a comment displays a currently valid OMB			
				*Note: Social Security Numbers must not be visible on the outside of any package sent by mail.			
1. NAME (LAST, FIRST, MIDDLE INITIAL) Anderson, Kelly		2. IDENTIFICATION NUMBER* 19001117		3. ID TYPE S			
6. MONITORING PERIOD (MM/DD/YYYY - MM/DD/YYYY) 04/01/2024 - 08/01/2024		7. LICENSEE NAME Demo Site		8. LICENSE NUMBER(S) L1			
<b>INTAKES</b>							
10A. RADIONUCLIDE	10B. CLASS	10C. MODE	10D. INTAKE IN $\mu$ Ci	EFFECTIVE DOSE EQUIVALENT (FOR EXTERNAL EXPOSURE)			
				DEEP DOSE EQUIVALENT (FOR THE ENTIRE MONITORING PERIOD) (DDE) 11B. 0,000			
				LENS (EYE) DOSE EQUIVALENT (LDE) 12. ND			
				SHALLOW DOSE EQUIVALENT WHOLE BODY (SDE, WB) 13. ND			
				SHALLOW DOSE EQUIVALENT MAX EXTREMITY (SDE, ME) 14. NR			
				COMMITTED EFFECTIVE DOSE EQUIVALENT (CEDE) 15. NR			
				COMMITTED DOSE EQUIVALENT MAXIMALLY EXPOSED ORGAN (CDE) 16. NR			
				TOTAL EFFECTIVE DOSE EQUIVALENT (ADD BLOCKS 11A AND 15) (TEDE) 17. 0,000			
				TOTAL ORGAN DOSE EQUIVALENT MAX ORGAN (ADD BLOCKS 11B AND 16) (TODE) 18. 0,000			
19. COMMENTS							
20. SIGNATURE - LICENSEE				21. DATE PREPARED 08/01/2024			

Reports

Report viewer form

Workers

Workers dose report

Workers list report

Check out report

Access denial

Form4

Form5

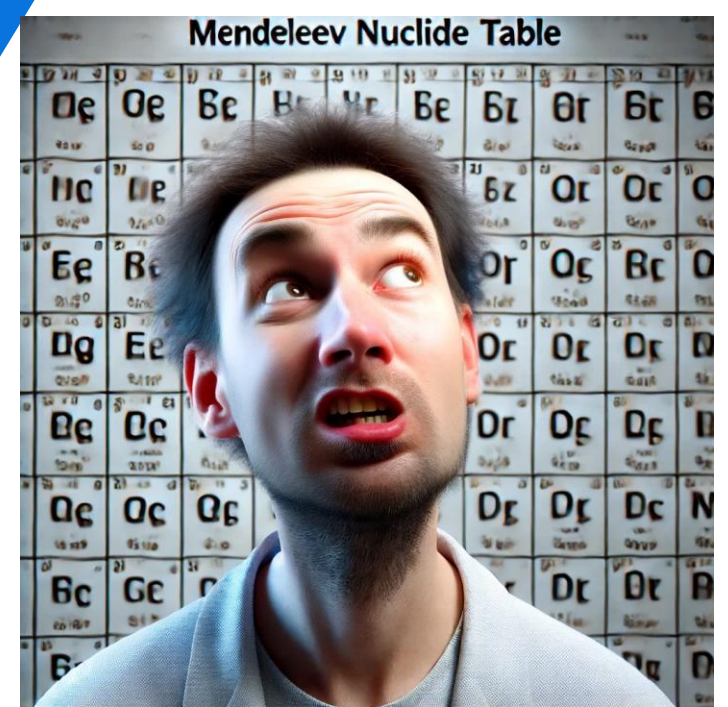


ore. Empower.  
DMC 3000  
ologies. All rights reserved.



# Additional features

- Source Control
- Nuclide library
- Intakes fct
- Equipment's
- PII (Personal Identifiable Information)
- Document attach





# Thank you

