



NSS Installation

ANTONIO BIANCHI & DIRK OFFERMANS
ESS INSTALLATION & FIELD SUPPORT MANAGEMENT

2020-09-29



Agenda

- 1 Working at the ESS site / public web page
- 2 Experimental Halls Confluence page
- 3 Schedules and layouts
- 4 Features of the installation plan
- 5 NSS Installation binders
- 6 Work Orders approval flow (EAM system)
- 7 ESS Area Coordination map

Working at the ESS site

(public ESS page)



ESS engages small, medium and large companies to build, operate and maintain the world's most powerful neutron source. Companies wishing to do business with ESS must be aware of the following rules and policies to which they are subject when working on the ESS premises.

Once a company is awarded a contract with ESS, additional information will be provided, based on the work to be performed. The information presented on these pages is subject to change as and when necessary over time. It is the responsibility of the bidder to consult the pages regularly and apply the most recent version.

Everyone working at the ESS premises (offices, construction area, laboratories) must be aware of and comply with the:

**Working
in Sweden**

[Read more](#)

**Safety
Requirements**

[Read more](#)

**Access to the
ESS Site**

[Read more](#)

**Code of Conduct
& other Policies**

[Read more](#)

<https://europeanspallationsource.se/procurement#working-site>



Organisation

Who's who in the installation community.

[Read more](#)



How we work

All you need to know at each step of the installation workflow

[Read more](#)

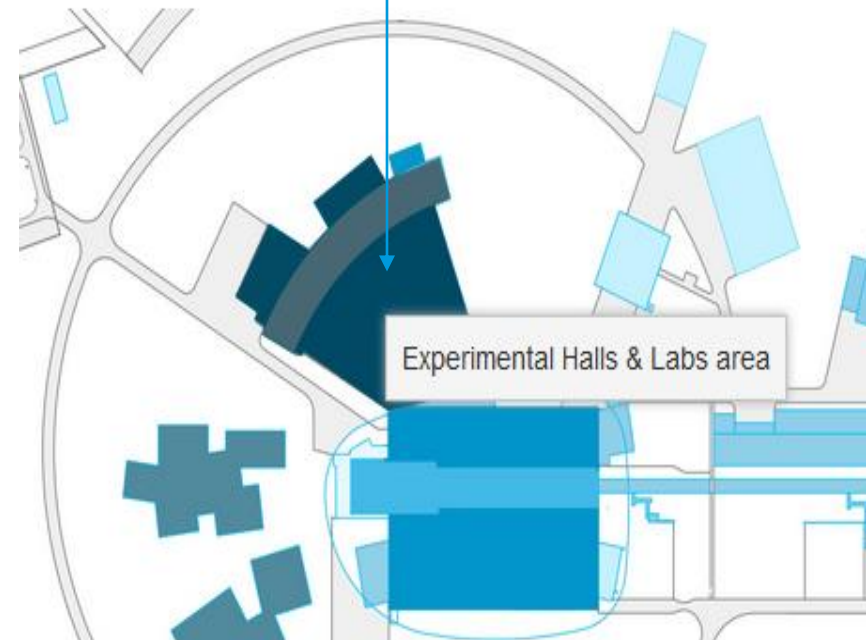


Services

Browse the portfolio of ESS services to request engineering, logistics or other support.

[Read more](#)

Click on the map !!



<https://confluence.ess.lu.se/site/installation>

Site Area Experimental Halls & Labs

(confluence page)

Monthly installation schedule (pdf file from MS project)

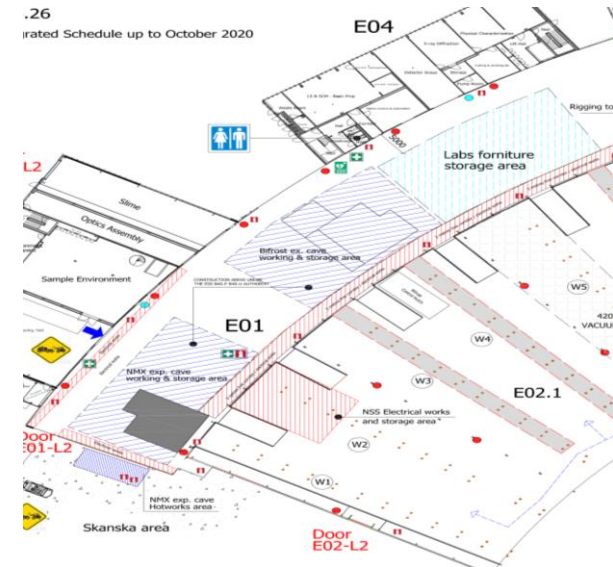
Activity Name	Duration	Start	End	IRR date	Building	Respons	Install. Pack. Lead	Inst. binder
August 2020								
High level integrated schedule with Installation packages, IRRs review dates, Partners and Inst. Package Leads								
E02 and E01 buildings								
Fit out of NBA integration tent	212 days	Thu 12/12/19	Fri 16/10/20	n.a.	E01	NSS	Hansdieter Schweiger (ESS)	ib253
BIFROST (W4)								
Experimental cave (W4)	30 days	Mon 24/08/20	Fri 02/10/20	01.07.2020	E01	BIFROST	Liam Whitelegg (ESS)	ib328
NSS INFRASTRUCTURE								
NSS electrical infrastructure installation	43 days	Mon 03/08/20	Wed 30/09/20	08.07.2020	E01 - E05	NSS	Stuart Birch (ESS)	ib323
E03 and E04 buildings								
Chemicals and technical labs installation	220 days	Mon 13/01/20	Mon 23/11/20	18.11.2019	E03/E04	NSS	Monika Hartl (ESS)	ib122

Notes:
Detailed installation schedules are included in the specific binders

3-6 months outlook schedule (pdf file from P6)

Activity ID	Activity Name	Original Duration	Start	Finish	NSS Responsible PI or PPL (ICSI)	Location	Aug	Sep	Oct	Nov	Dec	Jan	Feb
131 Neutron Scattering Systems Installation													
131 NSS - Installation Outlook(6 Months)													
Data Date 21-Aug-20 26-Aug-20 14:01													
Bunker & Test Beamline - Skanska & ESS Coordinated Activities													
Bunker versions with TD delays Jan 2020													
BUNKER Optimised sequence and early deliveries													
A214600090	Roof D03 side (Bunker area)	10	24-Aug-20*	03-Sep-20	001	Roof D03 side (Bunker area)							
A214600090	Roof D01 side (Bunker area)	9	24-Aug-20*	02-Sep-20	001	Roof D01 side (Bunker area)							
A214600090	Bunker crane AND Half crane operational D03 side (Bunker area)	0	15-Sep-20*	01-Sep-20	001	Bunker crane AND Half crane operational D03 side (Bunker area)							
A214600090	Bunker crane AND Half crane operational D01 side (Bunker area)	0	02-Jan-21*	01-Jan-21	001	Bunker crane AND Half crane operational D01 side (Bunker area)							
Deliveries to site													
BUNK10000	Pilars, beams and angular frames D03 (A0)	1	02-Sep-20*	02-Sep-20	003	Pilars, beams and angular frames D03 (A0)							
BUNK10100	Pilars, beams and angular frames D01 (A0)	1	02-Sep-20*	02-Sep-20	001	Pilars, beams and angular frames D01 (A0)							
BUNK10200	West sector lower wall (D03) - long sector (P1-A)	17	28-Oct-20*	13-Nov-20	003	West sector lower wall (D03) - long sector (P1-A)							
BUNK10300	West sector upper wall (D03) - long sector (P1-B)	9	14-Dec-20*	18-Dec-20	003	West sector upper wall (D03) - long sector (P1-B)							
BUNK10000	North sector bottom wall (D01) - D03 side - short sector (P3-A)	33	04-Jan-21*	05-Feb-21	002	North sector bottom wall (D01) - D03 side - short sector (P3-A)							
BUNK10000	South sector bottom wall (D01) - long sector (P2-A)	19	18-Jan-21*	05-Feb-21	001	South sector bottom wall (D01) - long sector (P2-A)							
BUNK10100	Pilars, beams frames and wall brackets on D02 (D03 side) (A0)	1	18-Jan-21*	18-Jan-21	002	Pilars, beams frames and wall brackets on D02 (D03 side) (A0)							
ICSI Installations													
A214600090	Installation of PSS on Light shutter system D01 side (ICSI)	10	21-Aug-20	17-Dec-20	001	Installation of PSS on Light shutter							
A214600090	Installation of PSS on Light shutter system D03 side (ICSI)	8	21-Aug-20	17-Dec-20	003	Installation of PSS on Light shutter							
D02 footprint installation including Inserts/Shutters													
A214600090	TD start vessel (status June 2020)	0	07-Sep-20*	07-Sep-20	002	TD start vessel (status June 2020)							

Construction layout



Features of the installation plan

"light grey" tasks: 100 % done !

IRR Area Resp. IPL Binder

% of completion

Level 1
Building

Level 2
Sub-project

Level 3
Inst. package



NSS Project – binders

<https://confluence.ess.lu.se/display/EWO/NSS+BINDERS>

ESS Installation Binder Library

- ▼ ESS Installation Binder Library
 - > ACCSYS BINDERS
 - > FM Binders
 - > ICS BINDERS
 - ▼ **NSS BINDERS**
 - > Specific Instruments - Installation binders
 - > Bunker Project - Installation binders
 - > Common Shielding - Installation binders
 - > General NSS - Installation binders
 - > Laboratories - Installation binders
 - > NSS Electrical Infrastructure
 - > TARGET BINDERS
 - > TRASH
 - > Closed and Archived Binders
- > ESS Testing Binder Library
- > ESS Commissioning Binder Library

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- ▼ **NSS BINDERS**
 - > Specific Instruments - Installation binders
 - ▼ Bunker Project - Installation binders
 - > ib232 - Bunker's R6 brackets
 - > ib298 - Bunker's R6 curved beams
 - > ib351 - Bunker's D03 structural frame

Bunker project:
n.3 binders approved for
installation so far

Work Orders approval flow

The work order approval flow involves all the Installation Package Leaders, Area and Installation Coordinator

Step 1

The IPL generates the W.O. request in the system (status: preparation on-going);

Step 2

The IPL moves forward the request to inform the Area Coordinator (status: ready to schedule). The AC is automatically notified at this stage.

Step 3

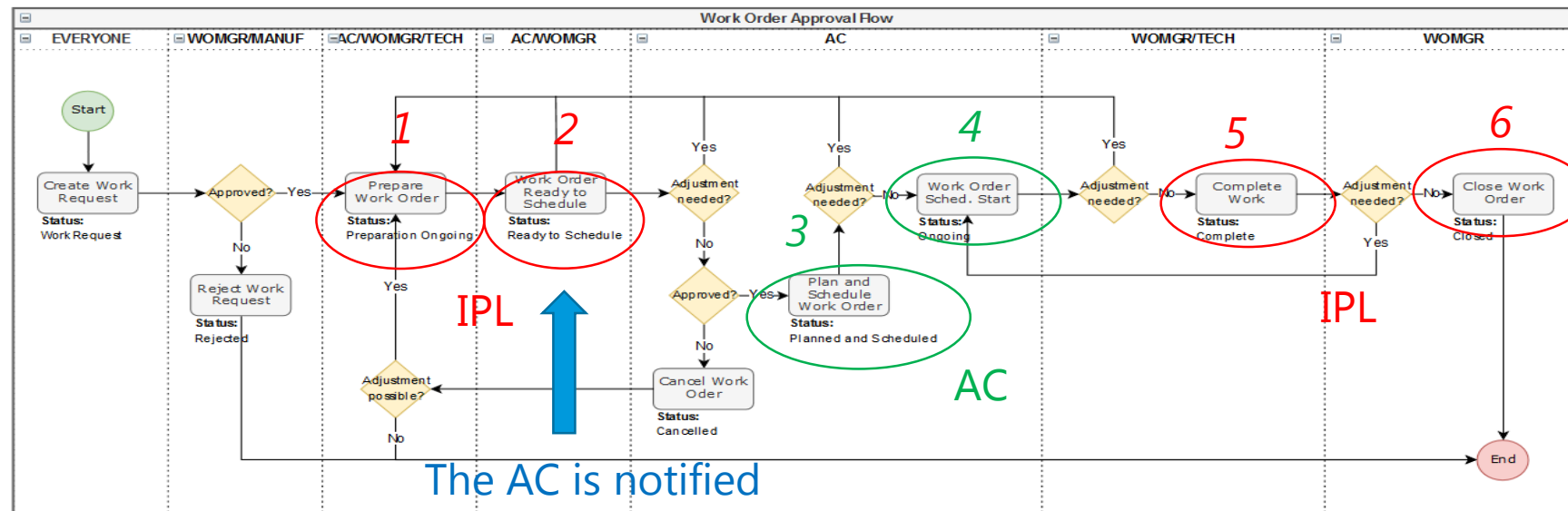
The AC confirms the WO moving it to "planned and scheduled" (or send it back to "preparation ongoing" in case the task is not compatible);

Step 4

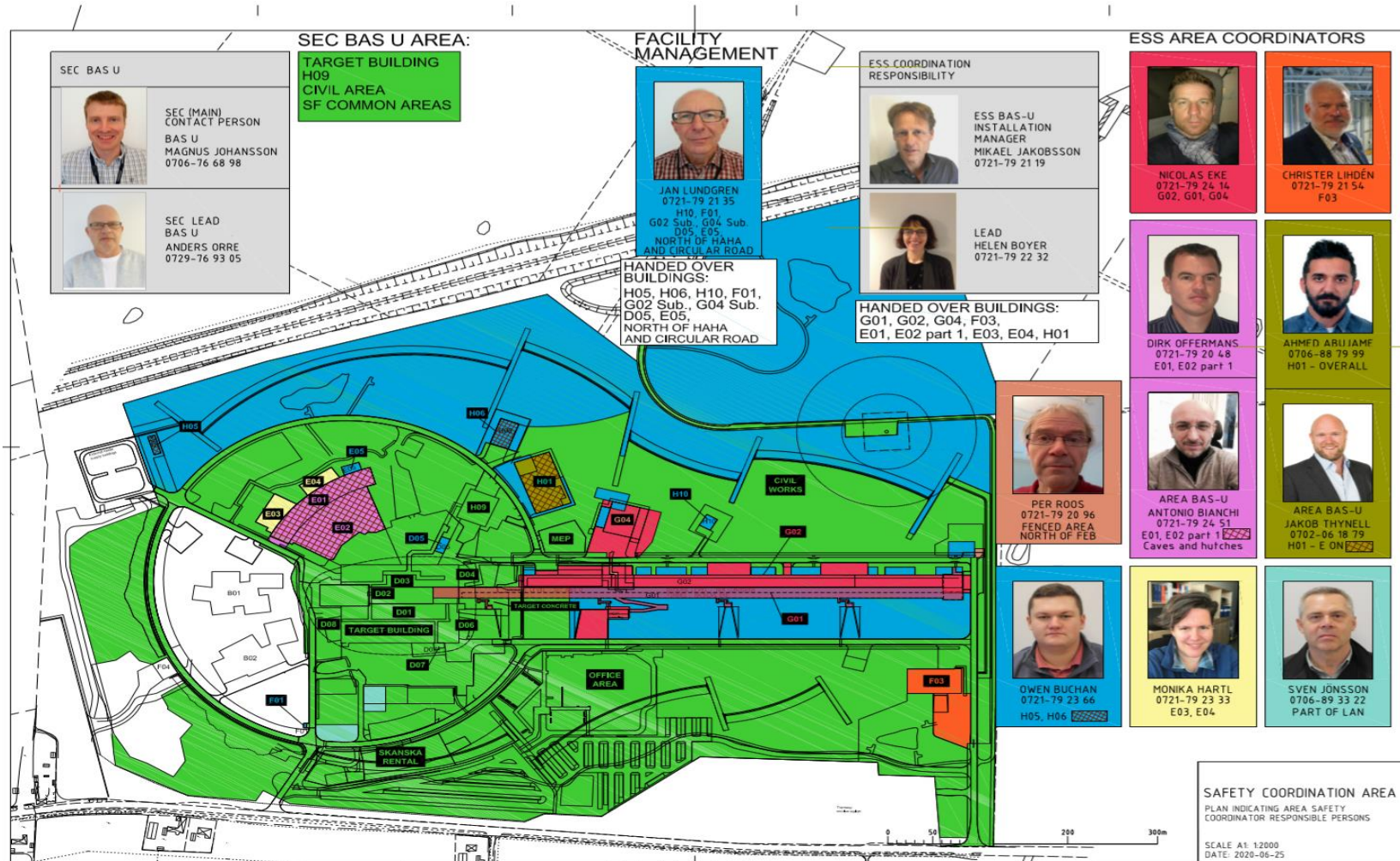
The AC moves the WO to "ongoing" as soon as the installation starts;

Step 5 and 6

The IP completes the WO moving it to "complete" and "closed" status.



Area Co-ordinator Map





Questions?