BE-ICS Activities during the LS2 Period

(15 min)

P. SOLLANDER, Eva Sanchez-Corral, Will Booth, Jonas Arroyo, Timo Hakulinen, ...





Outline

- BE-ICS activities
 - Status in PLAN
 - Issues
- Contributions by ICS
 - Status in PLAN
 - (No issues)
- Other activities, not yet in PLAN





28 BE-ICS activities lacking resources/contributions in PLAN

Res. Gp ✓T	Sup. Gp 🔻	ID ▼	WBS ▼	P♥	Title ▼	Support description	Comment
							Missing 1 FTE Fire Detection i
							Missing 0.6 FTE Engineering f
BE-ICS	BE-ICS	10036	SPS-UP (LVL3)	4. A	New SPS PPS (Personnel Protection System)	I&C of BIW sirenes in all the sites by GS-ASE-SA	No budget allocated for North
BE-ICS	EN-EL	10036	SPS-UP (LVL3)	4. A	New SPS PPS (Personnel Protection System)	Control cabling and FO (not yet installed - during YETS)	Resources currently not availa
BE-ICS	TE-EPC	10036	SPS-UP (LVL3)	4. A	New SPS PPS (Personnel Protection System)	Commissioning tests with new PPS	Not Available
BE-ICS	EN-EL	10047	LHC-MAC (LVL1)	4. A	Modify LHC PPS (Personnel Protection System)	Estimation of cabling & FO needs	Resources currently not availa
BE-ICS	BE-ICS	10047	LHC-MAC (LVL1)	4. A	Modify LHC PPS (Personnel Protection System)	BIW and sirens interface	Suite à la discussion avec Pier
BE-ICS	EN-EL	10047	LHC-MAC (LVL1)	4. A	Modify LHC PPS (Personnel Protection System)	Control cabling and FO	Resources currently not availa
BE-ICS	EN-EL	10048	LINAC4 (LVL2)	3. H	Modify PS PPS (Personnel Protection System) for LN4 connection	PPS EIS control cabling	Resources currently not availa
BE-ICS	IT-CS	10048	LINAC4 (LVL2)	3. H	Modify PS PPS (Personnel Protection System) for LN4 connection	Computing network for PPS control units	After 3 requests for information
BE-ICS	BE-ICS	10174	CMS-UP (LVL3)	4a. /	ACMS GCS new Gas system (GEM)	Coordination	Not Available
BE-ICS	BE-ICS	10681	SEC-BEAM-AREAS-	1. S	Deploy - Beam Imminent Warning & Evacuation system - new line in nTOF EAR2	Coordination	Not Available
BE-ICS	BE-ICS	10726	SEC-BEAM-AREAS-	1. S	Renovation - Beam Imminent Warning & Evacuation system - SPS North Area - Powering , sirens, BGLA, cables	Coordination	Not Available
BE-ICS	BE-ICS	10747	SURF-AREAS-ACC	1. S	Renovation - Fire Detection - SURFACE LHC & AWAKE - SM18,SR1,SR2,SR3,SZ33,SR4,SR5,SR6,SR7,SR8,SM18,BA4	Coordination	Not Available
BE-ICS	BE-ICS	10748	SEC-BEAM-AREAS-	1. S	Renovation - Fire Detection & Evacuation - SFDIN-00268- N.VEGA Zone 9 (ECN3-BA82-EHN2) - by new CASSIOPE	Coordination	Not Available
BE-ICS	BE-ICS	10749	SEC-BEAM-AREAS-	1. S	Renovation - Fire Detection & Evacuation - SFDIN-00278 - N.VEGA - Zone 13 (TDC2-TCC2-BA80)- by new CASSIOPE	Coordination	Not Available
BE-ICS	BE-ICS	10774	SPS (LVL2)	1. S	Renovation - Beam Imminent Warning & Evacuation - SPS North Area - Evacuation Centrals (include Evacuation Matrixes)	Coordination	Not Available
BE-ICS	HSE-SEE	10774	SPS (LVL2)	1. S	Renovation - Beam Imminent Warning & Evacuation - SPS North Area - Evacuation Centrals (include Evacuation Matrixes)	Safety validation	Not Available
BE-ICS	EN-EL	10776	SPS (LVL2)	1. S	Install - Automatic Fire Extinguishing - SPS - TA, Shaft & High Radiation Areas	Control & powering cabling + FO	Project not approved
BE-ICS	EN-EL	10776	SPS (LVL2)	1. S	a Install - Automatic Fire Extinguishing - SPS - TA, Shaft & High Radiation Areas	Control & powering cabling	Project not approved
BE-ICS	HSE-SEE	10777	SPS (LVL2)	1. S	Renovation - Beam Imminent Warning & Evacuation - SPS - Evacuation Centrals (include Evacuation Matrixes)	Safety validation	Not Available
BE-ICS	EN-EL	10778	SEC-BEAM-AREAS-	1. S	a Install - Red Telephones & Hard. Safety Alarm insfr. (MMD, CSAM) - SHIP (?)	Control cabling	Project not approved
BE-ICS	EN-EL	10778	SEC-BEAM-AREAS-	1. S	g Install - Red Telephones & Hard. Safety Alarm insfr. (MMD, CSAM) - SHIP (?)	Control cabling	Project not approved
BE-ICS	BE-ICS	10779	SPS (LVL2)	2. A	Preventive Maint Hard. Safety Alarm insfr. (MMD, CSAM)- SPS- Rempl. of General Zone Alarm cabling - ACHARD (?)	Coordination	Not Available
BE-ICS	HSE-SEE	10779	SPS (LVL2)	2. A	Preventive Maint Hard. Safety Alarm insfr. (MMD, CSAM)- SPS- Rempl. of General Zone Alarm cabling - ACHARD (?)	Safety validation	Not Available
BE-ICS	HSE-SEE	10781	ACC-COMP (ROOT)	4a. /	A Evolutive Maintenance - Hard. Safety Alarm insfr. (MMD, CSAM)- CERN	Safety validation	Not Available
BE-ICS	HSE-SEE	10782	ACC-COMP (ROOT)	2. A	Preventive Maint. 2015-LS2- Fire Detection & Evacuation - Laser Smoke Detectors - LHC, SPS, PS, Prev., Mey	Safety validation	Not Available
BE-ICS	HSE-SEE	10783	ACC-COMP (ROOT)	2. A	d Preventive Maint Fire Detection & Evacuation - Linear Smoke Detectors - LHC, SPS, PS, Prev., Mey.	Safety validation	Not Available





Res. Gp	Sup. Gp	ID 🛎	WBS	P v	Title ▼	Support description 🔻
BE-ICS	EN-EL	10035	SPS-UP (LVL3)	4. Appr	Deploy pilot installation of new SPS PPS (Personnel Protection System)	Installation of EIS PPS control cabling, FO and power supply for new acce
BE-ICS	EN-EL	10036	SPS-UP (LVL3)	4. Appr	New SPS PPS (Personnel Protection System)	Installation of EIS PPS control cabling and FO
BE-ICS	BE-ICS	10036	SPS-UP (LVL3)	4. Appr	New SPS PPS (Personnel Protection System)	I&C of BIW sirenes in all the sites by GS-ASE-SA
BE-ICS	EN-EL	10036	SPS-UP (LVL3)	4. Appr	New SPS PPS (Personnel Protection System)	Control cabling and FO (not yet installed - during YETS)
BE-ICS	TE-EPC	10036	SPS-UP (LVL3)	4. Appr	New SPS PPS (Personnel Protection System)	Commissioning tests with new PPS
BE-ICS	EN-EL	10047	LHC-MAC (LVL1)	4. Appr	Modify LHC PPS (Personnel Protection System)	Estimation of cabling & FO needs
BE-ICS	BE-ICS	10047	LHC-MAC (LVL1)	4. Appr	Modify LHC PPS (Personnel Protection System)	BIW and sirens interface
BE-ICS	EN-EL	10047	LHC-MAC (LVL1)	4. Appr	Modify LHC PPS (Personnel Protection System)	Control cabling and FO
BE-ICS	EN-EL	10048	LINAC4 (LVL2)	3. HL-LI	Modify PS PPS (Personnel Protection System) for LN4 connection	PPS EIS control cabling
BE-ICS	IT-CS	10048	LINAC4 (LVL2)	3. HL-LI	Modify PS PPS (Personnel Protection System) for LN4 connection	Computing network for PPS control units
BE-ICS	BE-ICS	10174	CMS-UP (LVL3)	4a. App	CMS GCS new Gas system (GEM)	Coordination
BE-ICS	BE-ICS	10681	SEC-BEAM-AREAS-PS (1. Safe	Deploy - Beam Imminent Warning & Evacuation system - new line in nTOF EAR2	Coordination
BE-ICS	BE-ICS	10726	SEC-BEAM-AREAS-SPS	1. Safe	Renovation - Beam Imminent Warning & Evacuation system - SPS North Area - Powering , sirens, BGLA, cables	Coordination
BE-ICS	BE-ICS	10747	SURF-AREAS-ACC (LVL	1. Safe	Renovation - Fire Detection - SURFACE LHC & AWAKE - SM18,SR1,SR2,SR3,SZ33,SR4,SR5,SR6,SR7,SR8,SM18,BA4	Coordination
BE-ICS	BE-ICS	10748	SEC-BEAM-AREAS-SPS	1. Safe	Renovation - Fire Detection & Evacuation - SFDIN-00268- N.VEGA Zone 9 (ECN3-BA82-EHN2) - by new CASSIOPE	Coordination
BE-ICS	BE-ICS	10749	SEC-BEAM-AREAS-SPS	1. Safe	Renovation - Fire Detection & Evacuation - SFDIN-00278 - N.VEGA - Zone 13 (TDC2-TCC2-BA80)- by new CASSIOPE	Coordination
BE-ICS	BE-ICS	10774	SPS (LVL2)	1. Safe	Renovation - Beam Imminent Warning & Evacuation - SPS North Area - Evacuation Centrals (Include Evacuation Matrixes)	Coordination
BE-ICS	HSE-SEE	10774	SPS (LVL2)		Renovation - Beam Imminent Warning & Evacuation - SPS North Area - Evacuation Centrals (include Evacuation Matrixes)	Safety validation
BE-ICS	EN-EL		SPS (LVL2)		Install - Automatic Fire Extinguishing - SPS - TA, Shaft & High Radiation Areas	Control & powering cabling + FO
BE-ICS	EN-EL		SPS (LVL2)		Install - Automatic Fire Extinguishing - SPS - TA, Shaft & High Radiation Areas	Control & powering cabling
BE-ICS	HSE-SEE		SPS (LVL2)		Renovation - Beam Imminent Warning & Evacuation - SPS - Evacuation Centrals (include Evacuation Matrixes)	Safety validation
BE-IO3	HOE-GEE	10///	SFS (LVLZ)	i. Sale	grenovation - Death Infillient Warning & Evacuation - 37.3 - Evacuation Centrals (Include Evacuation Matrixes)	Salety Valluation
BE-ICS	EN-EL	10778	SEC-BEAM-AREAS-SPS	1. Safet	Install - Red Telephones & Hard. Safety Alarm insfr. (MMD, CSAM) - SHIP (?)	Control cabling
BE-ICS	EN-EL	10778	SEC-BEAM-AREAS-SPS	1. Safet	Install - Red Telephones & Hard. Safety Alarm insfr. (MMD, CSAM) - SHIP (?)	Control cabling
BE-ICS	BE-ICS	10779	SPS (LVL2)	2. Activ	Preventive Maint Hard. Safety Alarm insfr. (MMD, CSAM)- SPS- Rempl. of General Zone Alarm cabling - ACHARD (?)	Coordination
BE-ICS	HSE-SEE	10779	SPS (LVL2)	2. Activ	Preventive Maint Hard. Safety Alarm insfr. (MMD, CSAM)- SPS- Rempl. of General Zone Alarm cabling - ACHARD (?)	Safety validation
BE-ICS	HSE-SEE	10781	ACC-COMP (ROOT)	4a. App	Evolutive Maintenance - Hard. Safety Alarm insfr. (MMD, CSAM)- CERN	Safety validation
BE-ICS	HSE-SEE	10782	ACC-COMP (ROOT)	2. Activ	Preventive Maint. 2015-LS2- Fire Detection & Evacuation - Laser Smoke Detectors - LHC, SPS, PS, Prev., Mey	Safety validation
BE-ICS	HSE-SEE	10783	ACC-COMP (ROOT)		Preventive Maint Fire Detection & Evacuation - Linear Smoke Detectors - LHC, SPS, PS, Prev., Mey.	Safety validation
		177.00	theoli			

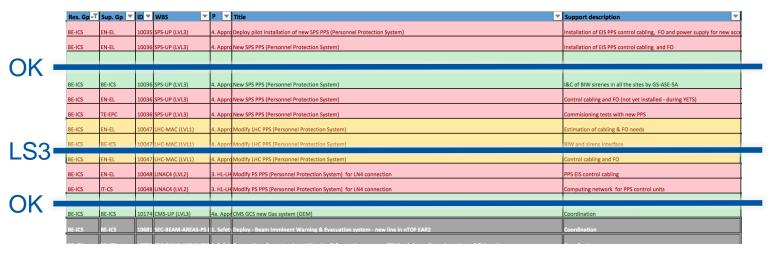




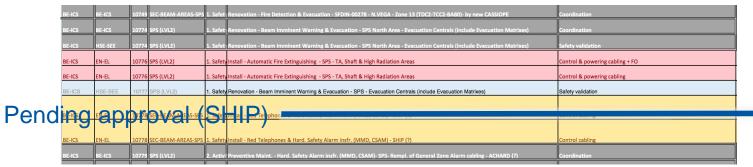
Section Control Cont		Res. Gp	Sup. Gp	ID =	WBS	P ▼	Title	Support description
Col.		BE-ICS	EN-EL	10035	SPS-UP (LVL3)	4. Appro	Deploy pilot installation of new SPS PPS (Personnel Protection System)	Installation of EIS PPS control cabling, FO and power supply for new acce
BECS DL4 1001 59-UP (VX) A. Appr New SP PS (Personnel Protection System) Commissioning sets with new PPS		BE-ICS	EN-EL	10036	SPS-UP (LVL3)	4. Appro	New SPS PPS (Personnel Protection System)	Installation of EIS PPS control cabling and FO
BECS DL4 1001 59-UP (VX) A. Appr New SP PS (Personnel Protection System) Commissioning sets with new PPS	OK -							
BECS DL4 1001 59-UP (VX) A. Appr New SP PS (Personnel Protection System) Commissioning sets with new PPS		DE ICS	DE ICS	10026	SER TID (17/13)	4 Appr	Now CDC DDC (Descended Destection System)	IRC of DIM sizones in all the sites by CS ASE SA
BEIGS TE-EPC 1003 95-UF ILVS A. Appro New 35-P5 [Personnel Protection System) Commissioning tests with New PPS								
Richard 1907 InCAMC (W.1) 4. Apps Modify U.C. PPS (Personnel Protection System) (stimution of cabing & 10 needs 1907 InCAMC (W.1) 4. Apps Modify U.C. PPS (Personnel Protection System) (30 million of cabing & 10 needs 1907 InCAMC (W.1) 4. Apps Modify U.C. PPS (Personnel Protection System) (30 million of cabing & 10 needs 1907 InCAMC (W.1) 4. Apps Modify U.C. PPS (Personnel Protection System) (30 million of cabing & 10 needs 1907 InCAMC (W.1) 4. Apps Modify U.C. PPS (Personnel Protection System) (40 million of cabing and 10 needs 1908 InCAMC (W.1) 3. Inc. U.M. Modify PS PS (Personnel Protection System) (40 million of cabing & 10 needs 1908 InCAMC (W.1) 3. Inc. U.M. Modify PS PS (Personnel Protection System) (40 million of cabing and 10 needs 1908 InCAMC (W.1) 3. Inc. U.M. Modify PS PS (Personnel Protection System) (40 million of cabing and 10 needs 1908 InCAMC (W.1) 3. Inc. U.M. Modify PS PS (Personnel Protection System) (40 million of cabing and 10 needs 1908 InCAMC (W.1) 3. Inc. U.M. Modify PS PS (Personnel Protection System) (40 million of cabing and 10 needs 1908 InCAMC (W.1) 3. Inc. U.M. Modify PS PS (Personnel Protection System) (40 million of cabing and 10 needs 1908 InCAMC (W.1) 3. Inc. U.M. Modify PS (PPS (Personnel Protection System) (40 million of cabing and 10 needs 1908 InCAMC (W.1) 3. Inc. U.M. Modify PS (PPS (Personnel Protection System) (40 million of cabing and 10 needs 1908 InCAMC (W.1) 1. Inc. U.M. Modify PS (PPS (PPS (PPS (PPS (PPS (PPS (PPS								
BEIGS 19-ELS 19-DI NEMBER (VIX.1) A Approximate Protection System) DECK BEIGS 19-ELS 19-DI NEMBER 19-DIS NUCLEUR (VIX.1) A Approximate Protection System) December 19-DIS Control cabing and FO BEIGS 19-ELS 19-DIS NUCLEUR (VIX.1) A Approximate Protection System) Protection System of Protection System								
BEIGS IN-EL 1007 LINCADC (UV.1) A Approach of Protection System) Control cabing and FO BEIGS IN-EL 10048 LINCAD (UV.2) B. HList Modely PS PSP (Personnel Protection System) for UN4 connection BEIGS IT-CS 10048 LINCAD (UV.2) B. HList Modely PS PSP (Personnel Protection System) for UN4 connection Computing network for PS control units BEIGS IN-ELS 10074 CMS-UP (UV.3) B. A. Approach Protection System) for UN4 connection Computing network for PS control units Confidentian BEIGS IN-ELS 10074 CMS-UP (UV.3) B. S. Exc USAMANATICA-STI II. Safet Psychology Based Imministent Warning & Execusion system - new line in nTOF EAR2 ECS IN-ELS 10074 CMS-UP (UV.3) B. S. Exc USAMANATICA-STI II. Safet Psychology Based Imministent Warning & Execusion system - new line in nTOF EAR2 ECS IN-ELS 10074 CMS-UP (UV.3) B. Safet Psychology Based Imministent Warning & Execusion system - new line in nTOF EAR2 ECS IN-ELS 10074 CMS-UP (UV.3) B. Safet Psychology Based Imministent Warning & Execusion system - new line in nTOF EAR2 ECS IN-ELS 10074 CMS-UP (UV.3) B. Safet Psychology Based Imministent Warning & Execusion System) Shorth Area. Proventing, in no., ECA, cables Coordination ECS IN-ELS 10074 ECS-BAMANATICA-STI II. Safet Revovation - Fire Detection & Psychology Based								
BEICS IT.CS 10048 UNACE (UV.2) 3. Hi-U Modify PS PS (Personnel Protection System) for UN4 connection Computing network for PPS control units BEICS BEICS 1074 (INSUIPULAS) 4. App CMS CCS new Gas system (GTM) BEICS BEICS 1074 (INSUIPULAS) 4. App CMS CCS new Gas system (GTM) BEICS BEICS BEICS 1074 (INSUIPULAS) 4. App CMS CCS new Gas system (GTM) BEICS BEICS BEICS 1074 (INSUIPULAS) 5. Sefer demonstrate Winning & Evacuation system - new line in nTOF EARS BEICS BEICS BEICS 1074 (INSUIPULAS) 5. Sefer demonstrate Winning & Evacuation system - Severing , sheet, BCLA, cables Coordination BEICS BEICS BEICS 1074 (INSUIPULAS) 5. Sefer demonstrate Winning & Evacuation system - SES North Area - Powering , sheet, BCLA, cables Coordination BEICS BEICS 1074 (INSUIPULAS) 5. Sefer demonstrate Fire Detection & Evacuation - SEDN COOZER- N. VEGA Zone 9 (ICM) BARZ-EHIX] - by new CASSOPE Coordination BEICS BEICS 1074 (INSUIPULAS) 5. Sefer demonstrate Fire Detection & Evacuation - SEDN COOZER- N. VEGA Zone 9 (ICM) BARZ-EHIX] - by new CASSOPE Coordination BEICS BEICS 1074 (INSUIPULAS) 5. Sefer demonstrate Fire Detection & Evacuation - SEDN COOZER- N. VEGA Zone 9 (ICM) BARZ-EHIX] - by new CASSOPE Coordination BEICS BEICS 1074 (INSUIPULAS) 5. Sefer demonstrate Fire Detection & Evacuation - SEDN COOZER- N. VEGA Zone 9 (ICM) BARZ-EHIX] - by new CASSOPE Coordination BEICS BEICS 1074 (INSUIPULAS) 5. Sefer demonstrate Fire Detection & Evacuation - SEDN COOZER SEDN COOX AND SERVING SED COORDINATION Multives) Coordination BEICS BEICS 1074 (INSUIPULAS) 5. Sefer demonstrate Fire Detection & Evacuation SEDN North Area - Evacuation Centrals (Include Evacuation Multives) Sefery validation BEICS BEICS BEICS 1077 (INSUIPULAS) 5. Sefer demonstrate Fire Detection & Evacuation Centrals (Include Evacuation Multives) Sefery validation BEICS BEICS BEICS 1077 (INSUIPULAS) 5. Action Preventive Maint - Automatic Fire Detection & Evacuation Centrals (Include Evacuation Multives) Sefery validation BEICS BEICS BEICS 1077 (INSUIPULAS) 5. Action Preven	LS3=	BE-ICS	EN-EL	10047	LHC-MAC (LVL1)	4. Appro	Modify LHC PPS (Personnel Protection System)	Control cabling and FO
BE-ICS 1004 DIACA (LVL2) 3. Hi-L9 Modify PS PPS (Personnel Protection System) for UM4 connection Computing network for PPS central units		BE-ICS	EN-EL	10048	LINAC4 (LVL2)	3. HL-LH	Modify PS PPS (Personnel Protection System) for LN4 connection	PPS EIS control cabling
BE-ICS BE-ICS 1075 SEC-BEAM-AREAS-PS I. Safet Renovation - Beam Imminent Warning & Evacuation system - new Iline in nTOF EARZ Coordination BE-ICS BE-ICS 10775 SEC-BEAM-AREAS-SPS I. Safet Renovation - Beam Imminent Warning & Evacuation system - SPS North Area - Powering , sirens, BGIA, tables Coordination BE-ICS BE-ICS 10745 SEC-BEAM-AREAS-SPS I. Safet Renovation - Fire Detection - SURFACE LIVE & AVANCE - SMIS.RRI.SPS.XR3.XR3.SRS.RR.SRS.SRS.SRS.SRS.SRS.SRS.SRS.SR		BE-ICS	IT-CS	10048	LINAC4 (LVL2)	3. HL-LH	Modify PS PPS (Personnel Protection System) for LN4 connection	Computing network for PPS control units
BE-ICS BE-ICS 1075 SEC-BEAM-AREAS-PS I. Safet Renovation - Beam Imminent Warning & Evacuation system - new Iline in nTOF EARZ Coordination BE-ICS BE-ICS 10775 SEC-BEAM-AREAS-SPS I. Safet Renovation - Beam Imminent Warning & Evacuation system - SPS North Area - Powering , sirens, BGIA, tables Coordination BE-ICS BE-ICS 10745 SEC-BEAM-AREAS-SPS I. Safet Renovation - Fire Detection - SURFACE LIVE & AVANCE - SMIS.RRI.SPS.XR3.XR3.SRS.RR.SRS.SRS.SRS.SRS.SRS.SRS.SRS.SR	OK -							
BE-ICS BE-ICS 1074 SURF-AREAS-ACC LIV. 1. Safet. Nerovation - Fire Detection & AVAINATE - SMESSEL SEAS SEAS SEAS SEAS SEAS SEAS SEAS		BE-ICS	BE-ICS	10174	CMS-UP (LVL3)	4a. App	CMS GCS new Gas system (GEM)	Coordination
BE-ICS BE-ICS 10787 SUFF-AREA-ACC(IV. II. Sefet Renovation - Fire Detection - SURFACE LHC & AWARE - SM18.SR1, SR2, SR3, SR4, SR5, SR6, SR7, SR8, SM18.8AA Coordination BE-ICS BE-ICS 10789 SEC-BEAM-AREA-SR7 II. Sefet Renovation - Fire Detection & Evacuation - SFDIN-00268-N-VEGA-Zone 9 (ECN3-BAR2-EHN2) - by new CASSIOPE Coordination BE-ICS BE-ICS 10789 SEC, IV.12) II. Sefet Renovation - Fire Detection & Evacuation - SFDIN-00278-N-VEGA-Zone 9 (ECN3-BAR2-EHN2) - by new CASSIOPE Coordination BE-ICS BE-ICS 10789 SFS (IV.12) II. Sefet Renovation - Beam Imminent Warning & Evacuation - SFD North Area - Evacuation Centrals (Include Evacuation Matrixes) Sefety validation BE-ICS BE-ICS IV.12) II. Sefet Renovation - Beam Imminent Warning & Evacuation - SFS North Area - Evacuation Centrals (Include Evacuation Matrixes) Sefety validation BE-ICS BE-ICS IV.12) II. Sefet Install - Automatic Fire Extinguishing - SFS - TA, Shaft & High Radiation Areas Control & powering cabling - FO BE-ICS IV.12 II. Sefet IV.12 II. Sefet Install - Automatic Fire Extinguishing - SFS - TA, Shaft & High Radiation Areas Control & powering cabling BE-ICS BE-ICS IV.12 II. Sefet IV.12 II. Sefet Install - Automatic Fire Extinguishing - SFS - Evacuation Centrals (Include Evacuation Matrixes) Safety validation BE-ICS BE-ICS IV.12 II. Sefet IV.12 II. Sefet Install - Automatic Fire Extinguishing - SFS - Evacuation Centrals (Include Evacuation Matrixes) Safety validation BE-ICS BE-ICS IV.12 II. Sefet IV.12 II. Sefet Install - Red Telephones & Hard. Sefety Alarm Instr. (IMMD, CSAM) - SFIP (?) BE-ICS BE-ICS IV.12 II. Sefet IV.12 II. Sefet Install - Red Telephones & Hard. Sefety Alarm Instr. (IMMD, CSAM) - SFS- Rempl. of General Zone Alarm cabling - ACHARD (?) Sefety Validation BE-ICS HIS-SEE IV.73 ACC-COMP (ROOT) II. Active Preventive Maint Hard. Sefety Alarm Instr. (IMMD, CSAM) - SFS, Pey. Pey. Mey Sefety Validation BE-ICS HIS-SEE IV.73 ACC-COMP (ROOT) II. Active Preventive Maint Hard. Sefety Alarm Instr. (IMMD, CSAM) - SFS, Pey. Pey. Mey Sefet		BE-ICS	BE-ICS	10681	SEC-BEAM-AREAS-PS	1. Safet	Deploy - Beam Imminent Warning & Evacuation system - new line in nTOF EAR2	Coordination
BE-ICS BE-ICS 1074 SEC-BEAM-AREAS-SPS IL Sefex Renovation - Fire Detection & Evacuation - SEDIN-00268- N.VEGA Zone 9 (ECN3-BABZ-EHN2) - by new CASSIOPE Coordination BE-ICS BE-ICS 1074 SEC-BEAM-AREAS-SPS IL Sefex Renovation - Fire Detection & Evacuation - SEDIN-00278 - N.VEGA Zone 13 (TDC-TCC2-BABD) - by new CASSIOPE Coordination BE-ICS BE-ICS 10774 SPS (LVL2) I. Sefex Renovation - Beam Imminent Warning & Evacuation - SPS North Area - Evacuation Centrals (Include Evacuation Matrixes) Coordination BE-ICS BN-EL 10775 SPS (LVL2) I. Sefex Renovation - Beam Imminent Warning & Evacuation - SPS North Area - Evacuation Centrals (Include Evacuation Matrixes) Sefety validation BE-ICS BN-EL 10775 SPS (LVL2) I. Sefex Install - Automatic Fire Extinguishing - SPS - TA, Shaft & High Radiation Areas Control & powering cabling - SPS - TA, Shaft & High Radiation Areas Control & powering cabling - SPS - TA, Shaft & High Radiation Areas Control & powering cabling - SPS - TA, Shaft & High Radiation Areas Control & powering cabling - SPS - TA, Shaft & High Radiation Areas Control & powering cabling - SPS - TA, Shaft & High Radiation Areas Control & powering cabling - SPS - TA, Shaft & High Radiation Areas Control & powering cabling - SPS - TA, Shaft & High Radiation Areas Control & powering cabling - SPS - TA, Shaft & High Radiation Areas Control & powering cabling - SPS - TA, Shaft & High Radiation Areas Control & powering cabling - SPS - TA, Shaft & High Radiation Areas Control & Powering cabling - SPS - TA, Shaft & High Radiation Areas Control & Powering cabling - SPS - TA, Shaft & High Radiation Areas Control & Powering cabling - SPS - TA, Shaft & High Radiation Areas Control & Powering cabling - SPS - TA, Shaft & High Radiation Areas Control & Powering cabling - SPS - TA, Shaft & High Radiation Areas Control & Powering cabling - SPS - TA, Shaft & High Radiation Areas Control & Powering cabling - SPS - TA, Shaft & High Radiation Areas Control & Powering cabling - SPS - TA, Shaft & High Radiation Areas Control & Powering cabli		BE-ICS	BE-ICS	10726	SEC-BEAM-AREAS-SPS	1. Safet	Renovation - Beam Imminent Warning & Evacuation system - SPS North Area - Powering , sirens, BGLA, cables	Coordination
BE-ICS BE-ICS 10746 SEC-BEAM-AREAS-SPS 1. Safety Renovation - Fire Detection & Evacuation - SFDIN-00278 - N.VEGA - Zone 13 (TDC2-TCC2-BA80)- by new CASSIOPE Coordination BE-ICS BE-ICS 10776 SPS (IVL2) 1. Safety Renovation - Beam imminent Warning & Evacuation - SPS North Area - Evacuation Centrals (include Evacuation Matrixes) coordination BE-ICS BI-EL 10776 SPS (IVL2) 1. Safety Install - Automatic Fire Extinguishing - SPS - TA, Shaft & High Radiation Areas BE-ICS BI-EL 10776 SPS (IVL2) 1. Safety Install - Automatic Fire Extinguishing - SPS - TA, Shaft & High Radiation Areas BE-ICS BI-EL 10776 SPS (IVL2) 1. Safety Install - Automatic Fire Extinguishing - SPS - TA, Shaft & High Radiation Areas BE-ICS BI-EL 10776 SPS (IVL2) 1. Safety Install - Automatic Fire Extinguishing - SPS - TA, Shaft & High Radiation Areas BE-ICS BI-EL 10776 SPS (IVL2) 1. Safety Install - Automatic Fire Extinguishing - SPS - TA, Shaft & High Radiation Areas BE-ICS BI-ELS 10776 SPS (IVL2) 1. Safety Install - Automatic Fire Extinguishing - SPS - TA, Shaft & High Radiation Areas Control & powering cabling BI-ELS Safety Alarm Install - Automatic Fire Extinguishing - SPS - Evacuation Centrals (include Evacuation Matrixes) Safety validation BE-ICS BI-ELS 10778 SEC-BEAM-AREAS-SPS 1. Safety Install - Red Telephones & Hard. Safety Alarm Install - (IMMD, CSAM) - SPS- Rempil. of General Zone Alarm cabling - ACHARD (?) Coordination BE-ICS BI-ELS 10778 SPS (IVL2) 2. Activity Preventive Maint - Hard. Safety Alarm Install - (IMMD, CSAM) - SPS- Rempil. of General Zone Alarm cabling - ACHARD (?) Safety validation BE-ICS BI-ELS 10781 ACC-COMP (ROOT) 2. Activity Preventive Maint - Hard. Safety Alarm Install - (IMMD, CSAM) - SPS- Rempil. of General Zone Alarm cabling - ACHARD (?) Safety validation Safety validation Safety validation Acc-COMP (ROOT) 2. Activity Preventive Maint - Hard. Safety Alarm Install - (IMMD, CSAM) - SPS- Rempil. of General Zone Alarm cabling - ACHARD (?) Safety validation Safety validation Safety validation Acc-COMP (ROOT) 2		BE-ICS	BE-ICS	10747	SURF-AREAS-ACC (LVL	1. Safet	Renovation - Fire Detection - SURFACE LHC & AWAKE - SM18,SR1,SR2,SR3,SZ33,SR4,SR5,SR6,SR7,SR8,SM18,BA4	Coordination
BE-ICS BE-ICS 10774 5PS (IV12) 1. Safet Renovation - Beam Imminent Warning & Evacuation - SPS North Area - Evacuation Centrals (include Evacuation Matrixes) coordination BE-ICS HSE-SEE 10774 5PS (IV12) 1. Safety Install - Automatic Fire Extinguishing - SPS - TA, Shaft & High Radiation Areas Control & powering cabling + FO Control & powering cabling + FO Control & SPS (IV12) 1. Safety Install - Automatic Fire Extinguishing - SPS - TA, Shaft & High Radiation Areas Control & powering cabling + FO BE-ICS EN-EL 10776 5PS (IV12) 1. Safety Install - Automatic Fire Extinguishing - SPS - TA, Shaft & High Radiation Areas Control & powering cabling + FO Safety validation BE-ICS EN-EL 10776 5PS (IV12) 1. Safety Install - Red Telephones & Hard. Safety Alarm Instr. (MMD, CSAM) - SHIP (7) BE-ICS HSE-SEE 10779 5PS (IV12) 2. Activi Preventive Maint Hard. Safety Alarm Instr. (MMD, CSAM) - SPS-Rempl. of General Zone Alarm cabling - ACHARD (?) Safety validation BE-ICS HSE-SEE 10779 5PS (IV12) 2. Activi Preventive Maint Hard. Safety Alarm Instr. (MMD, CSAM) - SPS-Rempl. of General Zone Alarm cabling - ACHARD (?) Safety validation BE-ICS HSE-SEE 10778 ACC-COMP (ROOT) 6ta. App Evolutive Maint Hard. Safety Alarm Instr. (MMD, CSAM) - SPS-Rempl. of General Zone Alarm cabling - ACHARD (?) Safety validation		BE-ICS	BE-ICS	10748	SEC-BEAM-AREAS-SPS	1. Safet	Renovation - Fire Detection & Evacuation - SFDIN-00268- N.VEGA Zone 9 (ECN3-BA82-EHN2) - by new CASSIOPE	Coordination
BE-ICS		BE-ICS	BE-ICS	10749	SEC-BEAM-AREAS-SPS	1. Safet	Renovation - Fire Detection & Evacuation - SFDIN-00278 - N.VEGA - Zone 13 (TDC2-TCC2-BA80)- by new CASSIOPE	Coordination
BE-ICS EN-EL 10776 SPS (LVL2) 1. Safety Install - Automatic Fire Extinguishing - SPS - TA, Shaft & High Radiation Areas Control & powering cabling + FO EN-EL 10776 SPS (LVL2) 1. Safety Install - Automatic Fire Extinguishing - SPS - TA, Shaft & High Radiation Areas Control & powering cabling BE-ICS EN-EL 10776 SPS (LVL2) 1. Safety Renovation - Beam Imminent Warning & Evacuation - SPPS - Evacuation Centrals (include Evacuation Matrixes) Safety validation BE-ICS EN-EL 10778 SEC-BEAM-AREAS-SPS 1. Safety Install - Red Telephones & Hard, Safety Alarm Instfr. (MMD, CSAM) - SHIP (?) BE-ICS BE-ICS 10778 SPS (LVL2) 2. Activi Preventive Maint Hard, Safety Alarm Instfr. (MMD, CSAM) - SPS- Rempl. of General Zone Alarm cabling - ACHARD (?) Safety validation BE-ICS HSE-SEE 10778 SPS (LVL2) 2. Activi Preventive Maint Hard, Safety Alarm Instfr. (MMD, CSAM) - SPS- Rempl. of General Zone Alarm cabling - ACHARD (?) Safety validation BE-ICS HSE-SEE 10778 ACC-COMP (ROOT) 4s. App Evolutive Maintenance - Hard, Safety Alarm Instfr. (MMD, CSAM) - ERN BE-ICS HSE-SEE 10783 ACC-COMP (ROOT) 2. Activi Preventive Maint 2015-LS2- Fire Detection & Evacuation - Laser Smoke Detectors - LHC, SPS, PS, Prev., Mey Safety validation		BE-ICS	BE-ICS	10774	SPS (LVL2)	1. Safet	Renovation - Beam Imminent Warning & Evacuation - SPS North Area - Evacuation Centrals (include Evacuation Matrixes)	Coordination
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BE-ICS BE-ICS 10779 SPS (LVL2) 2. Activ Preventive Maint Hard. Safety Alarm Insfr. (MMD, CSAM) - SPS-Rempl. of General Zone Alarm cabling - ACHARD (?) Control cabling BE-ICS HSE-SEE 10779 SPS (LVL2) 2. Activ Preventive Maint Hard. Safety Alarm Insfr. (MMD, CSAM)- SPS-Rempl. of General Zone Alarm cabling - ACHARD (?) Safety validation BE-ICS HSE-SEE 10781 ACC-COMP (ROOT) 4a. App: Evolutive Maintenance - Hard. Safety Alarm Insfr. (MMD, CSAM)- CERN Safety validation BE-ICS HSE-SEE 10782 ACC-COMP (ROOT) 2. Activ Preventive Maint. 2015-LS2- Fire Detection & Evacuation - Laser Smoke Detectors - LHC, SPS, PS, Prev., Mey Safety validation		BE-ICS	HSE-SEE	10777	SPS (LVL2)	1. Safet	Renovation - Beam Imminent Warning & Evacuation - SPS - Evacuation Centrals (include Evacuation Matrixes)	Safety validation
BE-ICS BE-ICS 10779 SPS (LVL2) 2. Activi Preventive Maint Hard. Safety Alarm Insfr. (MMD, CSAM) - SPS- Rempl. of General Zone Alarm cabling - ACHARD (?) Control cabling BE-ICS HSE-SEE 10779 SPS (LVL2) 2. Activi Preventive Maint Hard. Safety Alarm Insfr. (MMD, CSAM)- SPS- Rempl. of General Zone Alarm cabling - ACHARD (?) Safety validation BE-ICS HSE-SEE 10781 ACC-COMP (ROOT) 4a. App: Evolutive Maintenance - Hard. Safety Alarm Insfr. (MMD, CSAM)- CERN Safety Validation BE-ICS HSE-SEE 10781 ACC-COMP (ROOT) 2. Activi Preventive Maint. 2015-152- Fire Detection & Evacuation - Laser Smoke Detectors - LHC, SPS, PS, Prev., Mey Safety validation	Dono	lina	On	L	oval.	CI	JID).	
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BE-ICS HSE-SEE 10783 ACC-COMP (ROOT) 4a. App. Evolutive Maintenance - Hard. Safety Alarm Insfr. (MMD, CSAM)- CERN Safety validation BE-ICS HSE-SEE 10783 ACC-COMP (ROOT) 2. Activ Preventive Maint. 2015-LS2- Fire Detection & Evacuation - Laser Smoke Detectors - LHC, SPS, PS, Prev., Mey Safety validation		BE-ICS	BE-ICS	10779	SPS (LVL2)	2. Activ	Preventive Maint Hard. Safety Alarm insfr. (MMD, CSAM)- SPS- Rempl. of General Zone Alarm cabling - ACHARD (?)	Coordination
BE-ICS HSE-SEE 10783 ACC-COMP (ROOT) & A. App: Evolutive Maintenance - Hard. Safety Alarm Insfr. (MMD, CSAM)- CERN Safety validation BE-ICS HSE-SEE 10783 ACC-COMP (ROOT) 2. Activi Preventive Maint. 2015-LS2- Fire Detection & Evacuation - Laser Smoke Detectors - LHC, SPS, PS, Prev., Mey Safety validation		BE-ICS	HSE-SEE	10779	SPS (LVL2)	2. Activ	Preventive Maint Hard. Safety Alarm insfr. (MMD, CSAM)- SPS- Rempl. of General Zone Alarm cabling - ACHARD (?)	Safety validation
		BE-ICS	HSE-SEE	10781	ACC-COMP (ROOT)	4а. Арр	Evolutive Maintenance - Hard. Safety Alarm Insfr. (MMD, CSAM)-CERN	
		BE-ICS	HSE-SEE	10782	ACC-COMP (ROOT)	2. Activ	Preventive Maint. 2015-LS2- Fire Detection & Evacuation - Laser Smoke Detectors - LHC, SPS, PS, P <u>rev., Mey</u>	Safety validation
		BE-ICS	HSE-SEE	10783	ACC-COMP (ROOT)		Preventive Maint Fire Detection & Evacuation - Linear Smoke Detectors - LHC, SPS, PS, Prev., Mey.	Safety validation







Planned maintenance work pending resources



Planned maintenance work pending resources

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DE ICC	HCC CCC	10703 ACC COMP (DOOT)	2. Activi Preventive Maint Fire Detection & Evacuation - Linear Smoke Detectors - LHC, SPS, PS, Prev., Mey.	C-f-tlid-ti
BE-IUS	HOFESTE	10783 ACC-COIVIP (ROOT)	2. Activi Preventive Maint Fire Detection & Evacuation - Linear Smoke Detectors - LHC, SP3, P5, Prev., Mey.	Safety Validation

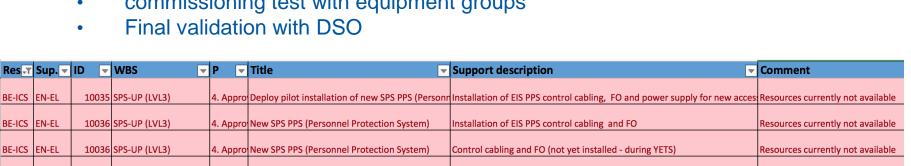




SPS Personnel Protection System

- Refurbishment of Access Safety and Control system
 - EDMS 1711842 status report 5/8/16 at IEFC
 - 16 access zones of the primary beam areas
 - replace the obsolete components with the main objective being standardization across the CERN accelerator complex, PS, LHC
- Pilot new access point ECA5 mid 2018
- Full installation during LS2
- Contributions not yet approved
 - cabling by EN-EL, -- Main worry!
 - commissioning test with equipment groups

4. Appro New SPS PPS (Personnel Protection System)



Commisioning tests with new PPS





10036 SPS-UP (LVL3)

Not Available

SPS PPS planning

4Q 2016: Specification / Sectorisation ready

Test platform

Pilot

Site

1Q 2017: Contract start

4Q 2017: Test Platform new SPS0 @ bld.104

- 3Q 2018: Pilot Installation ECA5
 - Verify the installation procedures and team
 - Provide an access point for future access to the ECA5 cavern
 - Keep the interlocked envelope at the current location (door in front of the lift)
- 1Q 2019 1Q 2020: On-site installation
 - Driven by cabling campaign schedule
 - Start with BA4 and BA6, possibly other surface access points during the radiation cool-down at the beginning of the LS2
 - The hottest zones at the end (e.g. BA1)
 - Use the central infrastructure in bld. 104 temporarily, keep current system for monitoring of the external envelope
- 2Q 2020: Installation of central infrastructure in the CCC/CCR
- 3Q 2020: Tests, tests, tests...
- 4Q 2020: DSO Test attention all EIS-beam/machine must be ready





PS Personnel Protection System

- Ongoing work (Yearly ECRs plus maintenance work)
 - EYETS, YETS, ...
 - Workplan: http://ps-proj-access-public.web.cern.ch/ps-proj-access-public.web.cern.ch/ps-proj-access-public/
 - MEDICIS PPS installation and commissioning June 2017
- LS2: Modify PS access control for Linac4 connection to PSB
 - Modification on Linac2, Switchyard and PSB implied
- Contributions not yet validated
 - Cabling by EN-EL
 - Network by IT-CS

Res -	Sup. ▼	ID ▼	WBS _	P ▼	Title ▼:	Support description 🔻	Comment
BE-ICS	EN-EL	10048	LINAC4 (LVL2)	3. HL-LHO	Modify PS PPS (Personnel Protection System) fo	PPS EIS control cabling	Resources currently not available
BE-ICS	IT-CS				Modify PS PPS (Personnel Protection System) for		After 3 requests for information, the





East Area renovation

- Personnel Protection System (access control)
 - ECR studies to be launched with RP and EN Risk Analysis and specification of safety functions
 - Add new sectors and **review of EIS** in primary zone (Important Safety Elements)
 - Access sectors according to radiation exposure
 - Interlock required for new ventilation system?
 - Improve access paths, e.g. avoid passing through IRRAD to reach secondary zone
 - Rationalise with other PS areas, improve maintainability
 - Secondary area PPS will be affected by dump replacement
 - Limited changes as the PPS interface is clearly defined. The one of the primary area are located in the PS and will be also replaced.
 - Cost estimates being prepared
- Alarm Systems (fire/gas detection, evacuation)
 - Pending meeting with EA team to have details on the renovation project and launch ECR studies
 - Shielding placement will have an impact on fire detection layout
- WIC (activity 10812): Resources available,
 - but cannot update PLAN
- New project can be done, but budget necessary





SPS Fire Safety project

Improve Safety in the SPS in case of fire: compartments, detection, protection and fire-fighting

• WP1- Fire compartments:

 A system consisting of normally open fire compartments distributed around the SPS ring, its main transfer lines TT10 and TT20, its vertical access shafts and liaison galleries. This includes the installation of fire doors and fire dampers, and the consolidation of existing infrastructure.

WP2- Upgraded automatic fire detection and fire protection system:

An upgraded automatic fire detection and fire protection system to pilot the closure of fire compartments
and to launch the evacuation alarms in predetermined zones based upon the location of smoke detection.
Also to isolate the ventilation system accordingly. Note that the fire protection system includes both
emergency evacuation and compartmentalisation functions.

WP3- Equipment to improve manual fire-fighting:

 Complementary equipment to improve manual fire-fighting in the form of a dry riser (aka: "colonne sèche", standpipe) to cover the entirety of the SPS main ring tunnel, and improved firefighting trolleys for each BA, equipped with portable CAFS (compressed air foam system) extinguisher.

WP4- Automatic fixed firefighting system (sprinkler):

 A new automatic fixed firefighting system (sprinkler) in the vertical shafts, TA access gallery and intersection with LSS sections, including high radiation areas in BA1 and BA2.

Į	Res_T	Sup. ▼	ID ▼	WBS [V	P 🔻	Title	V	Support description	Comment
	BE-ICS	EN-EL	10776	SPS (LVL2)		1. Safetv	Install - Automatic Fire Extinguishing - SPS - TA	A. S	Control & powering cabling + FO	Project not approved
				, ,	T					
Ų	BE-ICS	EN-EL	10776	SPS (LVL2)		1. Safety	Install - Automatic Fire Extinguishing - SPS - Ta	A, S	Control & powering cabling	Project not approved





15 contributions by BE-ICS declined in PLAN (all for EN-CV controls)

Res.	Sup.	ID	WBS	Р	Title	Support description	Comment
Gp → T	Gp <mark>-▼</mark>	▼	▼	▼	▼	▼	
EN-CV	BE-ICS	10448	SM18 (LVL2)	3. HL-LHO	Install new cooling towers for the upgrade of the cooling systems of point 18 - S	Support during testing	need more precise dates i
EN-CV	BE-ICS	10516	CMS (LVL2)	4a. Appro	Upgrade of the cooling power at the chilled water station by 1.5 MW	coding of control software	need more precise dates i
EN-CV	BE-ICS	10516	CMS (LVL2)	4a. Appro	Upgrade of the cooling power at the chilled water station by 1.5 MW	support during test and commissioning phase	need more precise dates i
EN-CV	BE-ICS	10528	LHCB (LVL2)	2. Activit	Install the new cooling station for FE electronics - LHCb	coding of control software	need more precise dates i
EN-CV	BE-ICS	10528	LHCB (LVL2)	2. Activit	Install the new cooling station for FE electronics - LHCb	support during test and commissioning	need more precise dates i
EN-CV	BE-ICS	10546	LHC-MAC-OP (L)	2. Activit	Consolidate the SEQ cooling plants in LHC	coding of software control	need more precise dates i
EN-CV	BE-ICS	10546	LHC-MAC-OP (L)	2. Activit	Consolidate the SEQ cooling plants in LHC	support during test and commissioning phase	need more precise dates i
EN-CV	BE-ICS	10644	LINAC2 (LVL2)	4a. Appro	Consolidate the Linac 2 ventilation control and regulation system	control programming	need more precise dates i
EN-CV	BE-ICS	10644	LINAC2 (LVL2)	4a. Appro	Consolidate the Linac 2 ventilation control and regulation system	support to the test and commissioning work	need more precise dates i
BE-RF	BE-ICS	10835	SPU-PRJ (LVL3)	3. HL-LHO	LIU-SPS RF power upgrade BAF3	coding of the control software	need more precise dates i
BE-RF	BE-ICS	10835	SPU-PRJ (LVL3)	3. HL-LHO	LIU-SPS RF power upgrade BAF3	Support during testing of CV installations	need more precise dates i
EN-CV	BE-ICS	10964	SPS-UP (LVL3)	3. HL-LHO	Cooling plant for BAF3 and RF equipment	Coding of control software	need more precise dates i
EN-CV	BE-ICS	10964	SPS-UP (LVL3)	3. HL-LHO	Cooling plant for BAF3 and RF equipment	support during test and commissioning	need more precise dates i
EN-CV	BE-ICS	10964	SPS-UP (LVL3)	3. HL-LHO	Cooling plant for BAF3 and RF equipment	Coding of control software	need more precise dates i
EN-CV	BE-ICS	10964	SPS-UP (LVL3)	3. HL-LHO	Cooling plant for BAF3 and RF equipment	support during test and commissioning	need more precise dates i





Res.	Sup.	ID	WBS	Р	Title	Support description	Comment
Gp √T	Gp - ▼	▼	▼	▼	V	▼	
EN-CV	BE-ICS	10448	SM18 (LVL2)	3. HL-LH	Install new cooling towers for the upgrade of the cooling systems of point	Support during testing	need more precise dates i
EN-CV	BE-ICS	10516	CMS (LVL2)	4a. Appr	Upgrade of the cooling power at the chilled water station by 1.5 MW	coding of control software	need more precise dates i
EN-CV	BE-ICS	10516	CMS (LVL2)	4a. Appr	Upgrade of the cooling power at the chilled water station by 1.5 MW	support during test and commissioning ph	need more precise dates i
EN-CV	BE-ICS	10528	LHCB (LVL2)	2. Activit	Install the new cooling station for FE electronics - LHCb	coding of control software	need more precise dates i
EN-CV	BE-ICS	10528	LHCB (LVL2)	2. Activit	Install the new cooling station for FE electronics - LHCb	support during test and commissioning	need more precise dates i
EN-CV	BE-ICS	10546	LHC-MAC-OP (L	2. Activit	Consolidate the SEQ cooling plants in LHC	coding of software control	need more precise dates i
EN-CV	BE-ICS	10546	LHC-MAC-OP (L	2. Activit	Consolidate the SEQ cooling plants in LHC	support during test and commissioning ph	need more precise dates i
EN-CV	BE-ICS	10644	LINAC2 (LVL2)	4a. Appr	Consolidate the Linac 2 ventilation control and regulation system	control programming	need more precise dates i
EN-CV	BE-ICS	10644	LINAC2 (LVL2)	4a. Appr	Consolidate the Linac 2 ventilation control and regulation system	support to the test and commissioning wo	need more precise dates i
BE-RF	BE-ICS	10835	SPU-PRJ (LVL3)	3. HL-LH	LIU-SPS RF power upgrade BAF3	coding of the control software	need more precise dates i
BE-RF	BE-ICS	10835	SPU-PRJ (LVL3)	3. HL-LH	LIU-SPS RF power upgrade BAF3	Support during testing of CV installations	need more precise dates i
EN-CV	BE-ICS	10964	SPS-UP (LVL3)	3. HL-LH	Cooling plant for BAF3 and RF equipment	Coding of control software	need more precise dates i
EN-CV	BE-ICS	10964	SPS-UP (LVL3)	3. HL-LH	Cooling plant for BAF3 and RF equipment	support during test and commissioning	need more precise dates i
EN-CV	BE-ICS	10964	SPS-UP (LVL3)	3. HL-LH	Cooling plant for BAF3 and RF equipment	Coding of control software	need more precise dates i
EN-CV	BE-ICS	10964	SPS-UP (LVL3)	3. HL-LH	Cooling plant for BAF3 and RF equipment	support during test and commissioning	need more precise dates i





Res.	Sup.	ID	WBS	Р	Title	Support description	Comment
Gp 🖣	T Gp -T	▼	▼	▼	V	▼	
EN-C	/ BE-ICS	10448	SM18 (LVL2)	3. HL-LH	Install new cooling towers for the upgrade of the cooling systems of point	Support during testing	need more precise dates i
EN-C	/ BE-ICS	10516	CMS (LVL2)	4a. Appr	Upgrade of the cooling power at the chilled water station by 1.5 MW	coding of control software	need more precise dates i
EN-C	/ BE-ICS	10516	CMS (LVL2)	4a. Appr	Upgrade of the cooling power at the chilled water station by 1.5 MW	support during test and commissioning ph	need more precise dates i
EN-C\	/ BE-ICS	10528	LHCB (LVL2)	2. Activi	Install the new cooling station for FE electronics - LHCb	coding of control software	need more precise dates i
EN-C	/ BE-ICS	10528	LHCB (LVL2)	2. Activi	Install the new cooling station for FE electronics - LHCb	support during test and commissioning	need more precise dates i
EN-C	/ BE-ICS	10546	LHC-MAC-OP (I	2. Activi	Consolidate the SEQ cooling plants in LHC	coding of software control	need more precise dates i
EN-C\	/ BE-IC:	10546	LUC MAC OD (2 Activity	Consolidate the SEO cooling plants in LUC	aumant during tast and appeniationing ph	more precise dates i
EN-C\	/ BE-IC!	Con	solidat	e th	e Linac 2 ventilation control and	d regulation system	more precise dates i
	/ BE-IC!	is n	ow sch	edu	lled after LS2		more precise dates i
BE-RF	BE-ICS	10835	SPU-PRJ (LVL3)	3. HL-LH	LIU-SPS RF power upgrade BAF3	coding of the control software	need more precise dates i
BE-RF	BE-ICS	10835	SPU-PRJ (LVL3)	3. HL-LH	LIU-SPS RF power upgrade BAF3	Support during testing of CV installations	need more precise dates i
EN-C\	/ BE-ICS	10964	SPS-UP (LVL3)	3. HL-LH	Cooling plant for BAF3 and RF equipment	Coding of control software	need more precise dates i
EN-C	/ BE-ICS	10964	SPS-UP (LVL3)	3. HL-LH	Cooling plant for BAF3 and RF equipment	support during test and commissioning	need more precise dates i
EN-C\	/ BE-ICS				Cooling plant for BAF3 and RF equipment	Coding of control software	need more precise dates
EN-C	/ BE-ICS				Cooling plant for BAF3 and RF equipment	support during test and commissioning	need more precise dates





Considerable effort for CV controls 2017-2020

- Many projects of variable size
 - Control re-engineering LHC
 - Renovation PS, PSB, SPS
 - Detector cooling (new and re-engineering)
 - New projects
- Possible HW replacement
 - S5, Premium?
- Very tight Planning (a lot of code to be prepared before LS2)
 - Deployment > Peak PS mid LS2
 - Peak LHC (ATLAS, CMS)
 - 2017 : overlap Bat 107 + CMS cavern ventilation prep
 - 2018: peak ATLAS cavern ventilation prep
 - 2019 : peak deployment of CMS ventilation + PS/PSB

·		20	17			20	18		2019 2020				20			
	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
#FAT		3	6			2	7				9			2		
	7	14	12	3	3	6	10	8	1	0	5	3	1	0	Ĭ :	1
# CAT		3	2			1	1			2	.9			1	4	
# JAI	9	7	2	14	6	2	0	3	7	9	5	8	5	6	(0





QPS upgrades

- IPQ, IPD, IT upgrade of WinCC OA and FESA (PLAN 10805)
 - Scheduling: no contribution request <u>yet</u>
 - Missing specification
 - BE-ICS resources: cannot be evaluated
- 11T devices, upgrade WinCC OA and FESA (PLAN 10823)
 - Scheduling: before LS2, no contribution request <u>yet</u>
 - Missing specification
 - BE-ICS resources: cannot be evaluated
- Test bench B180,FAIR (PLAN: no activity yet)
 - Scheduled: EYETS
 - Resources: OK
- Test bed for QPS PIC WIC Circuit (PLAN: no activity yet)
 - Requested for EYETS
 - Resources: being evaluated NOT possible in first estimation





WIC PS, WIC TT2

- Activities 10809, 10811
 - Contribution from BE-ICS OK
 - (but we cannot update PLAN database)





LHC Personnel Protection System

- Upgrade all access control infrastructure (HW and SW) for obsolescence reasons
- New access point in PZ65
- 2 contracts must be extended before end 2017
- HL-LHC preparation work
 - LASS interlocked areas in UA/UPR 17, 57 end LS2 (depending on civil engineering)
- NO problems with resources





Summary

- Many activities from now to end of LS2
- Only few (but critical) issues
 - Cabling for SPS Personnel Protection System
 - Cabling for PS Personnel Protection System
 - Linac4 connection and Linac2 modifications
 - Cabling for SPS fire extinguishing system
- Other incoming requests
 - QPS upgrades to be specified
 - HL-LHC WP17.4, 17.5 work to be confirmed
 - 17.4 Access and Alarms
 - 17.5 Technical Monitoring





