

DOCUMENT TITLE:
ESD BLOCK DIAGRAM




NOTES

LEGEND

REFERENCE DRAWING

DRG. No.

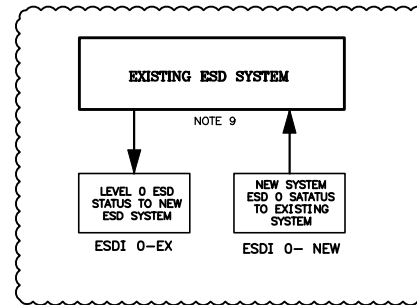
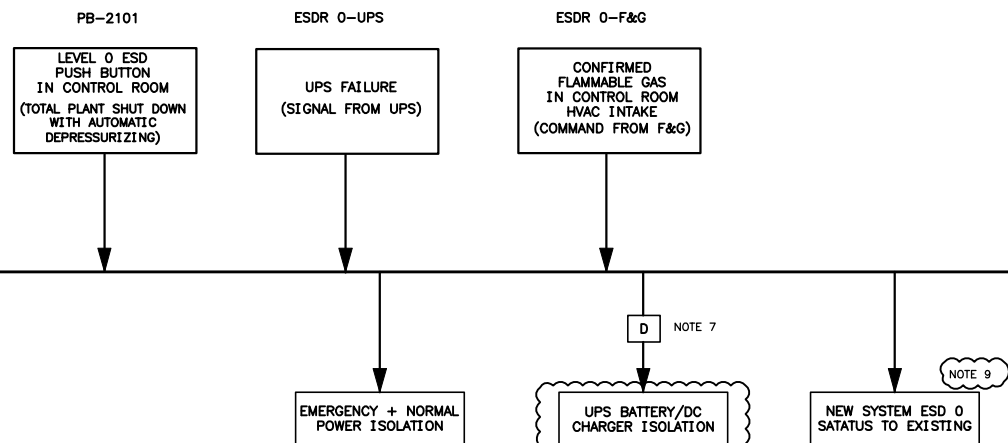
KEY PLAN

D02	OCT.2023	APC	M.Aryador	M.PAKHSHAN	S.PAKHSHANPOUR	**_**	***	*****	**_**	***_****	**_**	***_****						
D01	DEC.2022	IFA	M.Aryador	M.PAKHSHAN	M.MEHRSHAD	**_**	REV.	DESCRIPTION	BY	DATE	BY	DATE						
D00	MAY.2022	IPC	M.Aryador	M.PAKHSHAN	M.MEHRSHAD	**_**					CHECKED		REV.	APPR.				
REV.	DATE	P.O.I.S	PREP.	CHK.	APP.	AUT.	اشاره و کلیه نسخ این نقشه و جزئیات متعلق به شرکت ملی مناطق نفت خیز جنوب میباشد. THE ORIGINAL AND ALL COPIES OF THIS DRAWING TOGETHER WITH THE COPYRIGHT THEREIN ARE THE SOLE PROPERTY OF N.I.S.O.C./ FIELDS											
PROJECT NAME:						BINAK OILFIELD DEVELOPMENT/SURFACE FACILITIES GAS COMPRESSOR STATION												
PROJECT NO.:						971020												
EPC CONTRACTOR:			EPD/EPC CONTRACTOR (GC):						BINAK OILFIELD DEVELOPMENT SURFACE FACILITIES GAS COMPRESSOR STATION									
 HIRGAN ENERGY - DESIGN & INSPECTION COMPANIES			 PEDCO			PETROIRAN DEVELOPMENT COMPANY												
									DATE	SCALE	DRAWING BY	CHECKED BY	PROJECT ENG.					
DRAWING TITLE:						NO CONSTRUCTION PERMITTED UNLESS DRAWING APPROVED												
ESD BLOCK DIAGRAM																		
SCALE		SIZE	DRAWING NO.			SHEET NO.	REV.	BUDGET REF.	LOCATION	SIZE	CLASS	SERIAL NO.	SHEET	REVISION				
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(VENDOR TITLE BLOCK)**

ESD 0

Total Emergency Shutdown
With Depressurizing



- NOTES**
1. THE UPS SHALL GENERATE AN ALARM BEFORE POWER LOSS TO NOTIFY OPERATOR. THE OPERATOR SHALL TAKE NECESSARY ACTIONS BEFORE LOOSING THE SAFETY SYSTEM FOR SAFE SHUTDOWN AND BLOWDOWN OF PLANT.
 2. BLOWDOWN COMMAND SHALL BE GENERATED AFTER PRE-DEFINED TIME (ACCORDING TO ESD PHILOSOPHY) OR IN CASE OF RECEIVING RELATED ESDVs CLOSED STATUS SIGNAL.
 3. TO BE CONSIDERED IN F&G CAUSE & EFFECT.
 4. ALL ELECTRICAL SOURCES EXCEPT ESSENTIAL POWER SOURCES SHALL BE ISOLATED
 5. KEY PROTECTED PUSHBUTTONS SHALL BE PROVIDED FOR BLOWDOWN OF EACH TRAIN BY RECEIVING THE PERMISSION FROM ESD SYSTEM. THE KEY SHALL ACTIVATE STAGE BLOWDOWN VALVES INCLUDING THE TRAINS.
 6. FOR DETAILS OF ESD 3 CAUSES AND EFFECTS, REFER TO CAUSE & EFFECT DIAGRAM.
 7. ADJUSTABLE DELAY.
 8. LEVEL 0 ESD FROM EXISTING ESD SYSTEM SHALL GENERATE AN ALARM AND SHALL NOT HAD ANY EFFECT IN THIS ESD SYSTEM. BECAUSE THE NEW AND EXISTING PARTS ARE SEPARATE AND HAVE ISOLATE INPUT AND OUTPUT LINES.
 9. LEVEL 0 ESD FROM EXISTING ESD SYSTEM SHALL GENERATE AN ALARM AND SHALL NOT HAVE ANY EFFECT IN THIS ESD SYSTEM. BECAUSE THE NEW AND EXISTING PARTS ARE SEPARATE AND HAVE ISOLATE INPUT AND OUTPUT LINES.
 10. FLARE SHALL OPERATE SMOKE FREE UNDER NORMAL OPERATION CONDITION AS WELL AS UNDER EMERGENCY CONDITION SO AIR BLOWER SHALL START FOR BOTH CONDITION.

LEGEND

I.A. Instrument Air
PA/GA Public Address/General Alarm
K.O. Knock-out Drum
H.H. High High
L.L. Low Low
P.B. Push Button
ESDV Emergency Shutdown Valve
BDV Blow-Down Valve

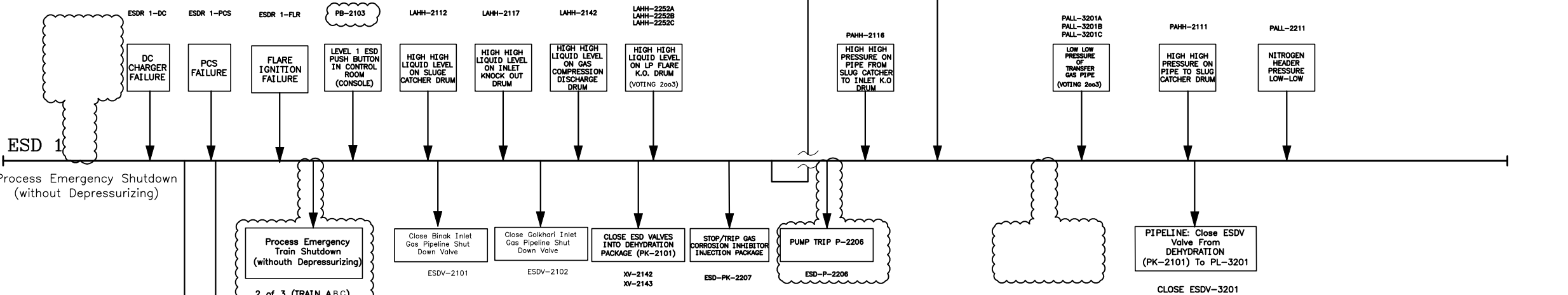
REFERENCE DRAWING

DRG. No.

KEY PLAN

ESD 1

Process Emergency Shutdown
(without Depressurizing)

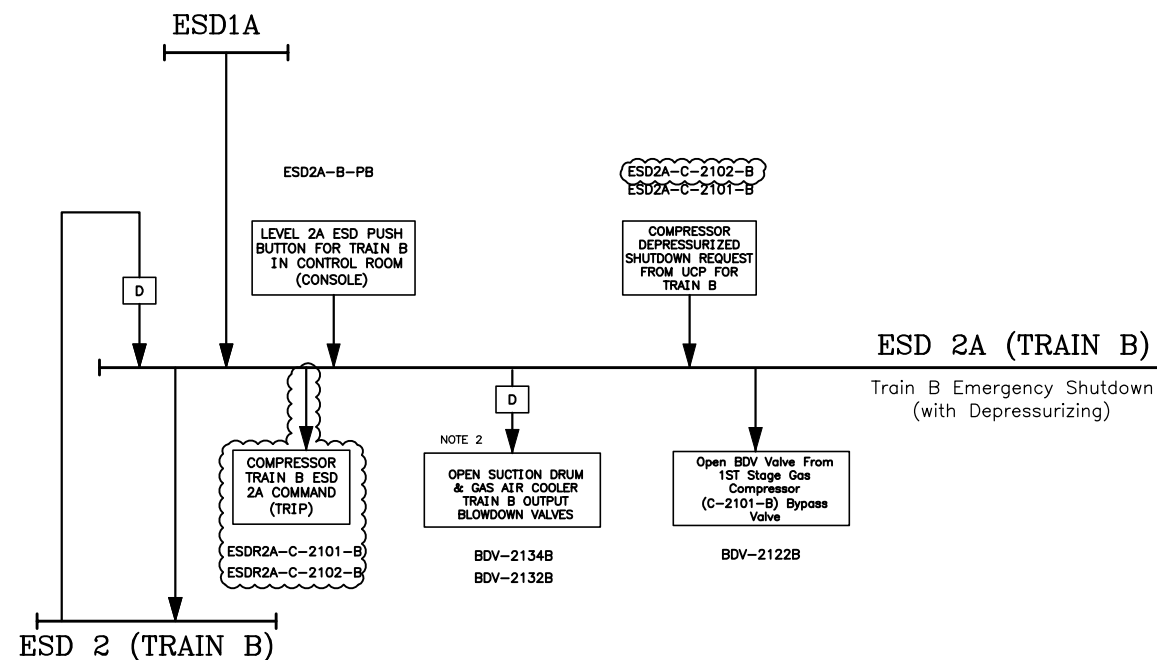


ESD 2

ESD 3

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(VENDOR TITLE BLOCK)**



NOTES

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7. ADJUSTABLE DELAY.
8. ALL ESDVS SHALL BE CLOSED EXCEPT ESDVS IN FLARE K.O. DRUM LIQUID DISCHARGE LINE.

LEGEND	
I.A.	Instrument Air
PA/GA	Public Address/General Alarm
K.O.	Knock-out Drum
H.H.	High High
L.L.	Low Low
P.B.	Push Button
ESDV	Emergency Shutdown Valve
BDV	Blow-Down Valve

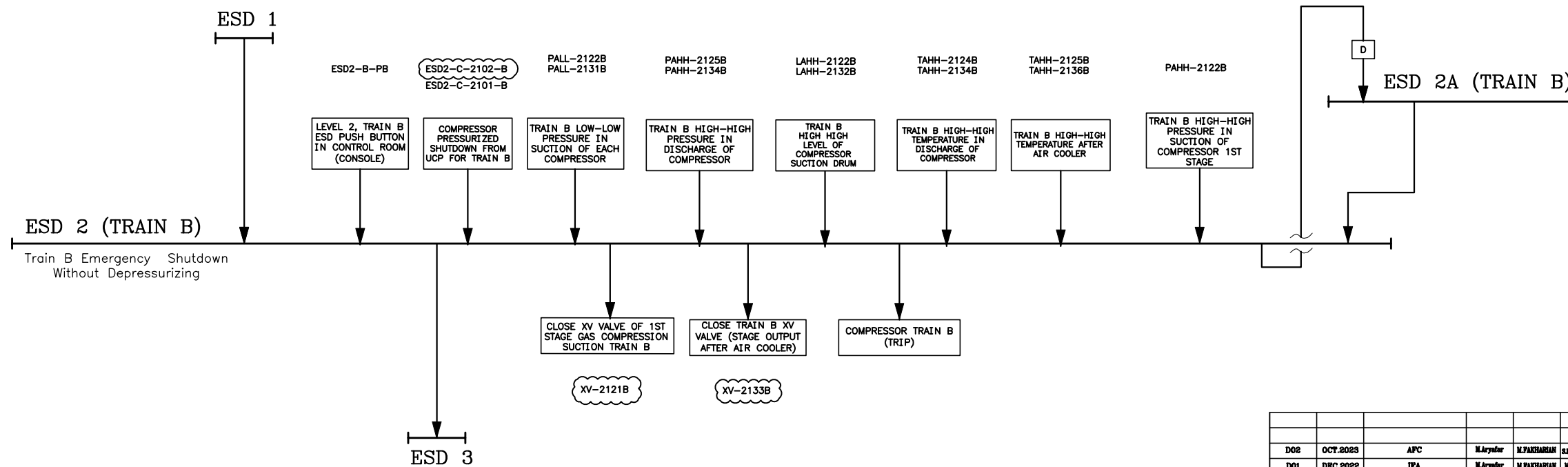
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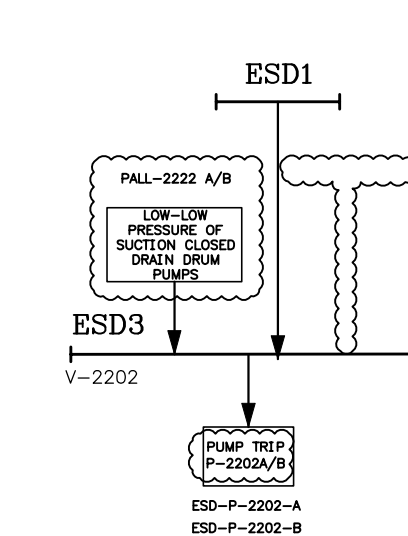
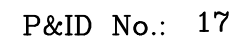
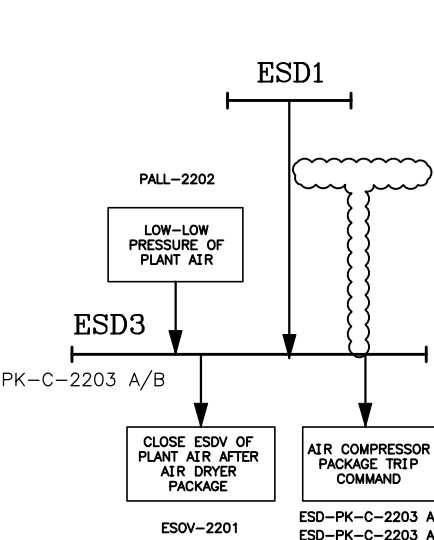
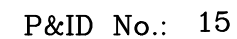
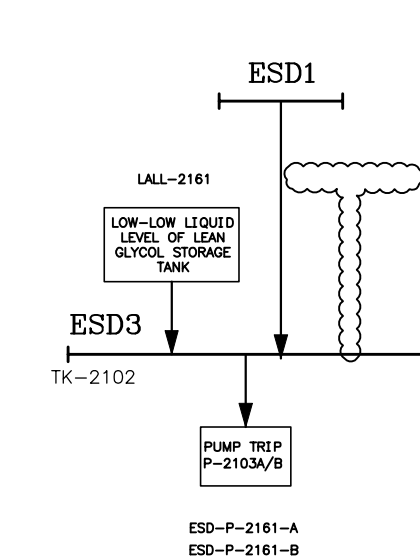
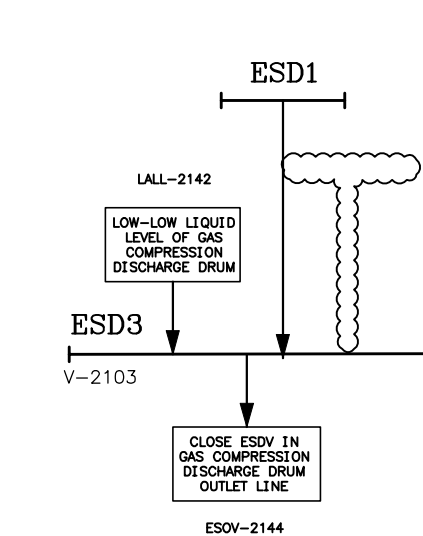
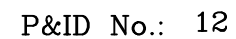
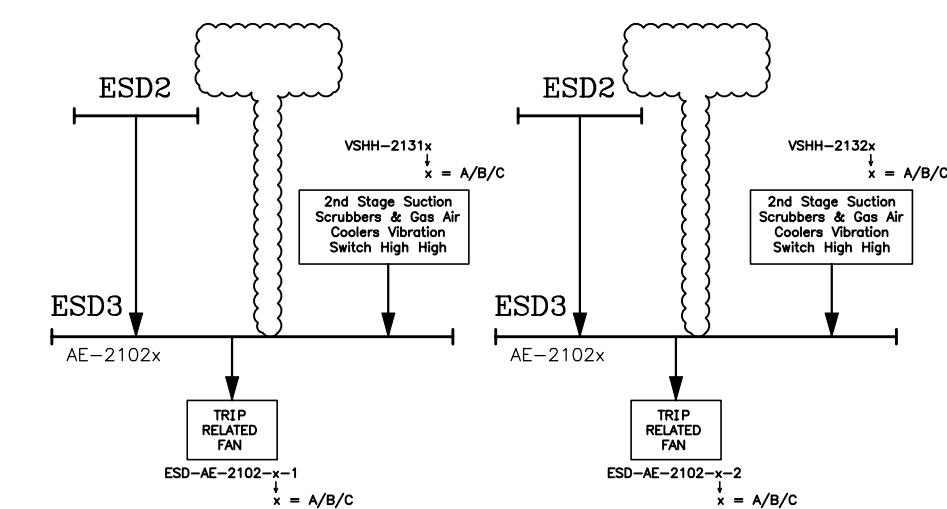
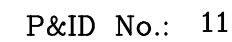
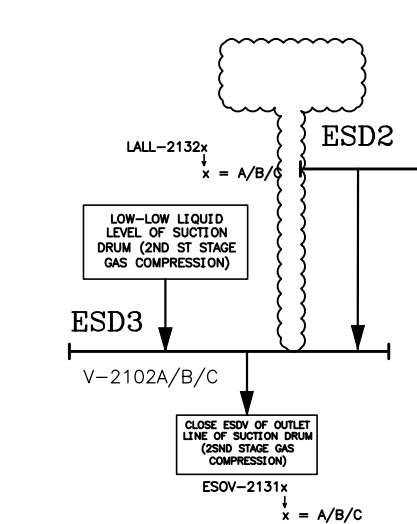
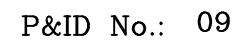
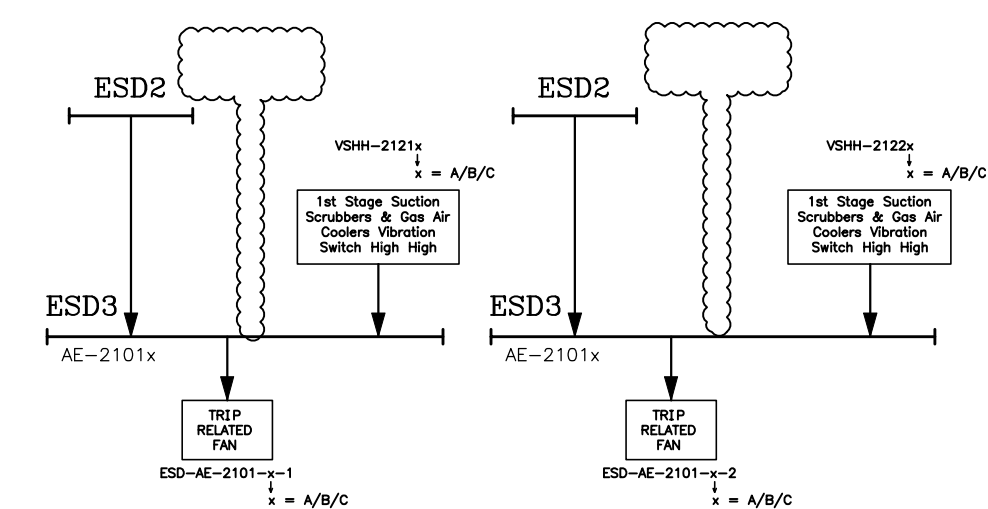
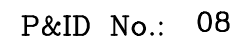
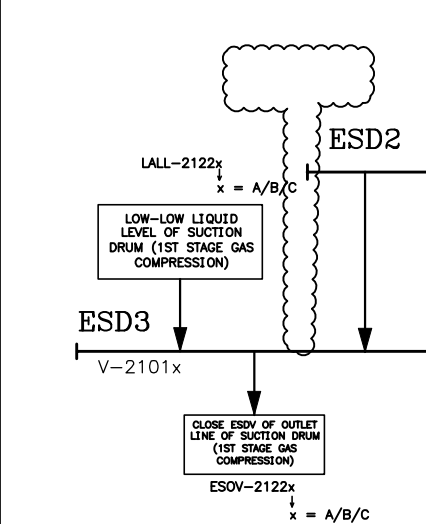
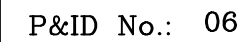
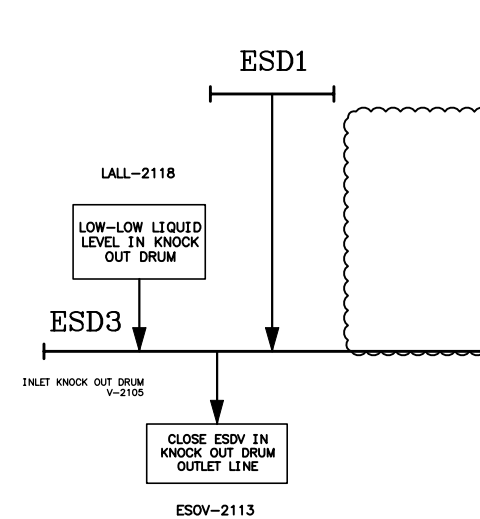
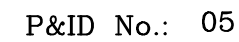
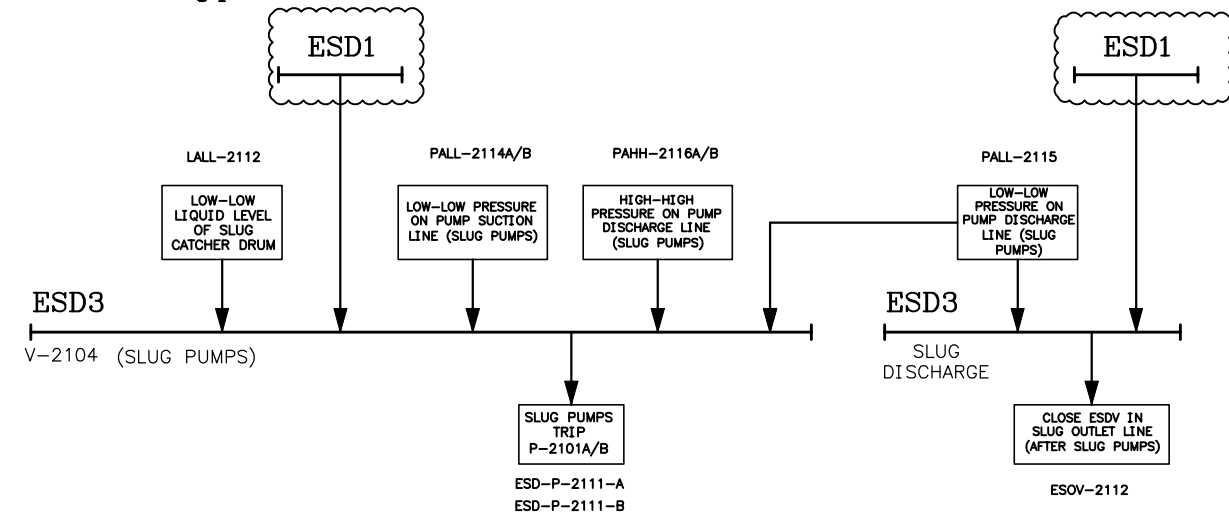
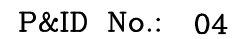
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KEY PLAN

Case No.	Case Name	Case Type	Case Status	Case Date	Case Location	Case Description	Case Notes	Case Attachments
1	John Doe	Medical	Open	2023-01-01	New York	John Doe, 45 years old, male, reported a sudden onset of chest pain and shortness of breath on January 1, 2023. He was taken to the hospital and diagnosed with a heart attack. He is currently recovering in the hospital.	John Doe has a history of high blood pressure and cholesterol. He was last seen by a doctor on December 15, 2022.	John Doe's medical records from the hospital are attached.
2	Jane Smith	Legal	Closed	2023-01-05	California	Jane Smith, 32 years old, female, was involved in a car accident on January 5, 2023. She was driving on a highway and lost control of her vehicle, resulting in a collision with a guardrail. She was injured and taken to the hospital. The accident was caused by a pothole on the road.	Jane Smith is currently recovering from her injuries. She is planning to sue the city for negligence.	Jane Smith's accident report and medical records are attached.
3	Michael Brown	Financial	Open	2023-01-10	Texas	Michael Brown, 55 years old, male, reported a sudden loss of income on January 10, 2023. He was laid off from his job at a company that was facing financial difficulties. He is currently looking for a new job.	Michael Brown is a single father with two children. He is struggling to make ends meet.	Michael Brown's employment records and financial statements are attached.
4	Sarah Johnson	Education	Open	2023-01-15	Florida	Sarah Johnson, 28 years old, female, is a teacher at a local school. She has been struggling to manage her classroom and has been receiving negative feedback from students and parents. She is seeking help from her colleagues and the school administration.	Sarah Johnson is a dedicated teacher with 5 years of experience. She is looking for ways to improve her teaching skills.	Sarah Johnson's student evaluations and classroom management records are attached.
5	David Wilson	Technology	Open	2023-01-20	Illinois	David Wilson, 38 years old, male, is a software developer at a tech company. He has been working on a new project and has encountered several technical issues. He is seeking help from his colleagues and the company's IT department.	David Wilson is a highly skilled software developer with 10 years of experience. He is looking for ways to solve the technical issues he is facing.	David Wilson's code snippets and error logs are attached.
6	Emily Davis	Healthcare	Open	2023-01-25	Washington	Emily Davis, 42 years old, female, is a nurse at a local hospital. She has been working on a new patient and has noticed some unusual symptoms. She is seeking help from her colleagues and the hospital's medical staff.	Emily Davis is a highly skilled nurse with 8 years of experience. She is looking for ways to provide the best care for her patients.	Emily Davis's patient records and medical notes are attached.
7	Robert Miller	Business	Open	2023-01-30	Georgia	Robert Miller, 50 years old, male, is the owner of a small business. He has been struggling to manage his finances and has been receiving negative feedback from customers. He is seeking help from his colleagues and the local business community.	Robert Miller is a hardworking entrepreneur with 15 years of experience. He is looking for ways to grow his business and improve customer satisfaction.	Robert Miller's business plan and financial statements are attached.
8	Lisa Anderson	Art	Open	2023-02-05	Arizona	Lisa Anderson, 35 years old, female, is an artist and painter. She has been working on a new painting and has encountered some creative challenges. She is seeking help from her colleagues and the local art community.	Lisa Anderson is a talented artist with 10 years of experience. She is looking for ways to improve her painting skills and create new works of art.	Lisa Anderson's artwork and creative process notes are attached.
9	James Taylor	Science	Open	2023-02-10	Colorado	James Taylor, 48 years old, male, is a scientist at a research institution. He has been working on a new experiment and has encountered some unexpected results. He is seeking help from his colleagues and the institution's research staff.	James Taylor is a highly skilled scientist with 12 years of experience. He is looking for ways to solve the problems he is facing and make new discoveries.	James Taylor's research data and experiment notes are attached.
10	Amanda White	History	Open	2023-02-15	Idaho	Amanda White, 30 years old, female, is a history teacher at a local school. She has been working on a new lesson plan and has encountered some challenges. She is seeking help from her colleagues and the school administration.	Amanda White is a dedicated teacher with 5 years of experience. She is looking for ways to make her lessons more engaging and informative.	Amanda White's lesson plans and student feedback are attached.
11	Christopher Lee	Geography	Open	2023-02-20	Montana	Christopher Lee, 40 years old, male, is a geography teacher at a local school. He has been working on a new project and has encountered some challenges. He is seeking help from his colleagues and the school administration.	Christopher Lee is a dedicated teacher with 8 years of experience. He is looking for ways to make his lessons more interactive and practical.	Christopher Lee's project reports and student feedback are attached.
12	Michelle Garcia	Language	Open	2023-02-25	Utah	Michelle Garcia, 33 years old, female, is a language teacher at a local school. She has been working on a new lesson plan and has encountered some challenges. She is seeking help from her colleagues and the school administration.	Michelle Garcia is a dedicated teacher with 6 years of experience. She is looking for ways to make her lessons more engaging and informative.	Michelle Garcia's lesson plans and student feedback are attached.
13	Kevin Martinez	Mathematics	Open	2023-03-01	Nebraska	Kevin Martinez, 37 years old, male, is a mathematics teacher at a local school. He has been working on a new project and has encountered some challenges. He is seeking help from his colleagues and the school administration.	Kevin Martinez is a dedicated teacher with 7 years of experience. He is looking for ways to make his lessons more interactive and practical.	Kevin Martinez's project reports and student feedback are attached.
14	Angela Robinson	Physical Education	Open	2023-03-05	South Dakota	Angela Robinson, 31 years old, female, is a physical education teacher at a local school. She has been working on a new lesson plan and has encountered some challenges. She is seeking help from her colleagues and the school administration.	Angela Robinson is a dedicated teacher with 4 years of experience. She is looking for ways to make her lessons more engaging and informative.	Angela Robinson's lesson plans and student feedback are attached.
15	Benjamin Clark	Music	Open	2023-03-10	North Dakota	Benjamin Clark, 39 years old, male, is a music teacher at a local school. He has been working on a new project and has encountered some challenges. He is seeking help from his colleagues and the school administration.	Benjamin Clark is a dedicated teacher with 9 years of experience. He is looking for ways to make his lessons more interactive and practical.	Benjamin Clark's project reports and student feedback are attached.
16	Stephanie Hall	Drama	Open	2023-03-15	South Carolina	Stephanie Hall, 34 years old, female, is a drama teacher at a local school. She has been working on a new project and has encountered some challenges. She is seeking help from her colleagues and the school administration.	Stephanie Hall is a dedicated teacher with 6 years of experience. She is looking for ways to make her lessons more engaging and informative.	Stephanie Hall's project reports and student feedback are attached.
17	Gregory Young	Visual Arts	Open	2023-03-20	Mississippi	Gregory Young, 41 years old, male, is a visual arts teacher at a local school. He has been working on a new project and has encountered some challenges. He is seeking help from his colleagues and the school administration.	Gregory Young is a dedicated teacher with 10 years of experience. He is looking for ways to make his lessons more interactive and practical.	Gregory Young's project reports and student feedback are attached.
18	Christina King	Foreign Languages	Open	2023-03-25	Alabama	Christina King, 36 years old, female, is a foreign languages teacher at a local school. She has been working on a new project and has encountered some challenges. She is seeking help from her colleagues and the school administration.	Christina King is a dedicated teacher with 8 years of experience. She is looking for ways to make her lessons more engaging and informative.	Christina King's project reports and student feedback are attached.
19	Jonathan Wright	Computer Science	Open	2023-04-01	Louisiana	Jonathan Wright, 43 years old, male, is a computer science teacher at a local school. He has been working on a new project and has encountered some challenges. He is seeking help from his colleagues and the school administration.	Jonathan Wright is a dedicated teacher with 11 years of experience. He is looking for ways to make his lessons more interactive and practical.	Jonathan Wright's project reports and student feedback are attached.
20	Rebecca Lopez	Environmental Studies	Open	2023-04-05	Missouri	Rebecca Lopez, 32 years old, female, is an environmental studies teacher at a local school. She has been working on a new project and has encountered some challenges. She is seeking help from her colleagues and the school administration.	Rebecca Lopez is a dedicated teacher with 5 years of experience. She is looking for ways to make her lessons more engaging and informative.	Rebecca Lopez's project reports and student feedback are attached.
21	Timothy Scott	Health, Safety, and Environment	Open	2023-04-10	Arkansas	Timothy Scott, 46 years old, male, is a health, safety, and environment teacher at a local school. He has been working on a new project and has encountered some challenges. He is seeking help from his colleagues and the school administration.	Timothy Scott is a dedicated teacher with 13 years of experience. He is looking for ways to make his lessons more interactive and practical.	Timothy Scott's project reports and student feedback are attached.
22	Victoria Green	Business Law	Open	2023-04-15	West Virginia	Victoria Green, 38 years old, female, is a business law teacher at a local school. She has been working on a new project and has encountered some challenges. She is seeking help from her colleagues and the school administration.	Victoria Green is a dedicated teacher with 9 years of experience. She is looking for ways to make her lessons more engaging and informative.	Victoria Green's project reports and student feedback are attached.
23	Christopher Adams	Political Science	Open	2023-04-20	Delaware	Christopher Adams, 44 years old, male, is a political science teacher at a local school. He has been working on a new project and has encountered some challenges. He is seeking help from his colleagues and the school administration.	Christopher Adams is a dedicated teacher with 12 years of experience. He is looking for ways to make his lessons more interactive and practical.	Christopher Adams's project reports and student feedback are attached.
24	Michelle Baker	International Studies	Open	2023-04-25	Connecticut	Michelle Baker, 35 years old, female, is an international studies teacher at a local school. She has been working on a new project and has encountered some challenges. She is seeking help from her colleagues and the school administration.	Michelle Baker is a dedicated teacher with 7 years of experience. She is looking for ways to make her lessons more engaging and informative.	Michelle Baker's project reports and student feedback are attached.
25	Robert Evans	History of Art	Open	2023-05-01	Virginia	Robert Evans, 49 years old, male, is a history of art teacher at a local school. He has been working on a new project and has encountered some challenges. He is seeking help from his colleagues and the school administration.	Robert Evans is a dedicated teacher with 14 years of experience. He is looking for ways to make his lessons more interactive and practical.	Robert Evans's project reports and student feedback are attached.
26	Stephanie King	Art History	Open	2023-05-05	North Carolina	Stephanie King, 33 years old, female, is an art history teacher at a local school. She has been working on a new project and has encountered some challenges. She is seeking help from her colleagues and the school administration.	Stephanie King is a dedicated teacher with 6 years of experience. She is looking for ways to make her lessons more engaging and informative.	Stephanie King's project reports and student feedback are attached.
27	Gregory Young	Visual Arts						

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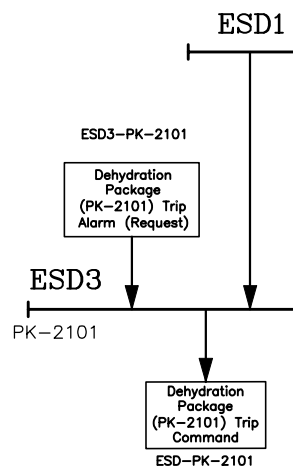
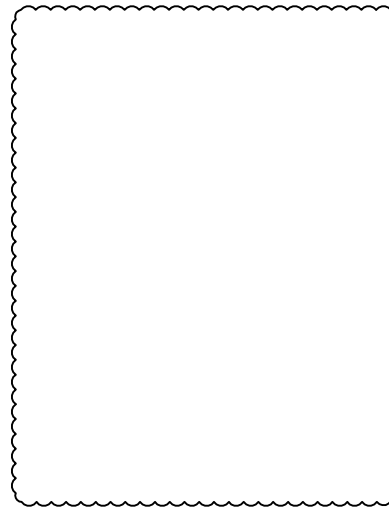
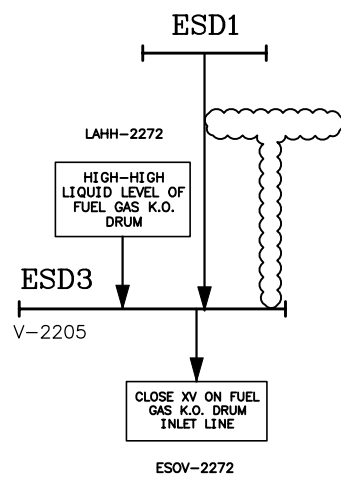
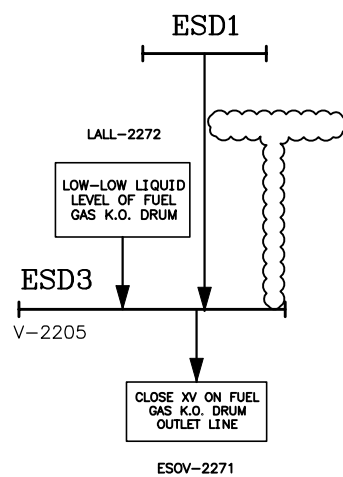
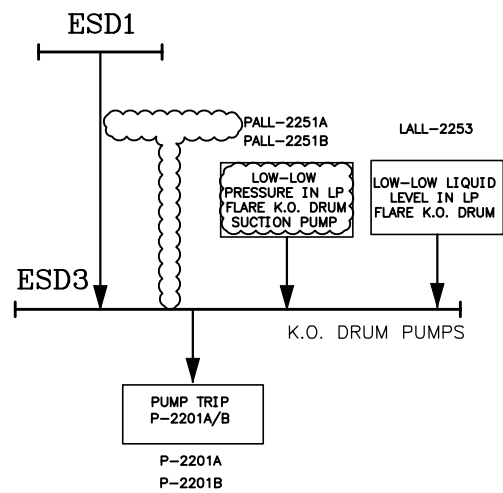
LEGEND

I.A.	Instrument Air
PA/GA	Public Address/General Alarm
K.O.	Knock-out Drum
H.H.	High High
L.L.	Low Low
P.B.	Push Button
ESDV	Emergency Shutdown Valve
BDV	Blow-Down Valve

REFERENCE DRAWING	DRG. No.
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KEY PLAN

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NOTES	

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