

INTERNSHIP REPORT
PT. SCHNEIDER ELECTRIC INDONESIA



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INTERNATIONAL INDUSTRIAL ENGINEERING PROGRAM
FACULTY OF INDUSTRIAL TECHNOLOGY
UNIVERSITAS ATMA JAYA YOGYAKARTA
2017

APPROVAL

The internship report which is written based on the internship at PT. Schneider Electric Indonesia during the period of January 30th, 2017 to July 1st, 2017 by:

Name : Ahmad Novian Syah Putra
Student ID : 13 14 07544

Has been approved.

Faculty Supervisor,

Handwritten signature of The Jin Ai in black ink, with the date 6/11/17 written next to it.

The Jin Ai, ST., MT., Dr. Eng.

Cikarang, 10 July 2017

On site Supervisor,

The Schneider Electric logo in green, with a handwritten signature in black ink over it.

Adi Widiadi

To Whom It May Concern

Internship Acknowledgement

No. 928/HRS-SITE/L/VII/2017

The undersigned herewith acknowledge that:

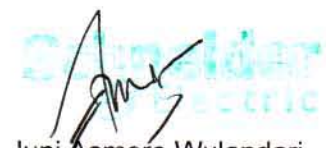
Name : Ahmad Novian Syah Putra
Institution : Universitas Atma Jaya Yogyakarta

Has successfully completed the Internship Program in PT Schneider Indonesia with the period of 30 January 2017 until 30 June 2017.

During this period of time, He worked under the supervision of Mr. Abdul Azis Budiman as Method Engineer Support.

We thank to Novian for his contribution to the company and we wish him success in his future study and career endeavor.

Cikarang, 10 June 2017

A handwritten signature in black ink, appearing to read "Juni", is written over a faint, light blue circular stamp that contains the Schneider Electric logo.

Juni Asmoro Wulandari
Industrial HRBP Manager

PREFACE

This internship report is purposed to meet the academic requirement for doing the final internship presentation. This report is intended as the written report about the internship that is already done by Author at PT. Schneider Electric Indonesia by the period of January 30th, 2017 to July 1st, 2017.

This report is written in the following manner: introduction to the internship program, company's background, company's system, and the explanation of the assignments given during internship period as well as the result of said assignments.

Author would like to thank Mr. The Jin Ai, S.T., M.T., D. Eng. for the support and advices during author's period of internship. Special thanks to Mr. Joko Sutopo as plant director in PT. Schneider Electric Indonesia that gave Author the opportunity to do the internship.

The Author would like to address Mr. Adi Widiadi as the Author's supervisor during the internship program. Mr. Abdul Azis Budiman, Mr. Nurul, and every member of Method department as they gave Author the assignments in this internship as well as the guidance and discussion related to the projects, and thanks to every member of Method department for such a warm welcome, and Thanks to Mr. Adi Widiadi and Mrs. Santi as they accepted Author's request for the internship, and for the helps they provide to Author while doing the internship.

Last but not least, Author would like to thank the author's family for the endless support, friends, whose names cannot be mentioned one by one, who never fail to crack a smile on author's face, you are the reason the Author absolutely enjoy to stay in Bekasi.

Cikarang, 10 July 2017

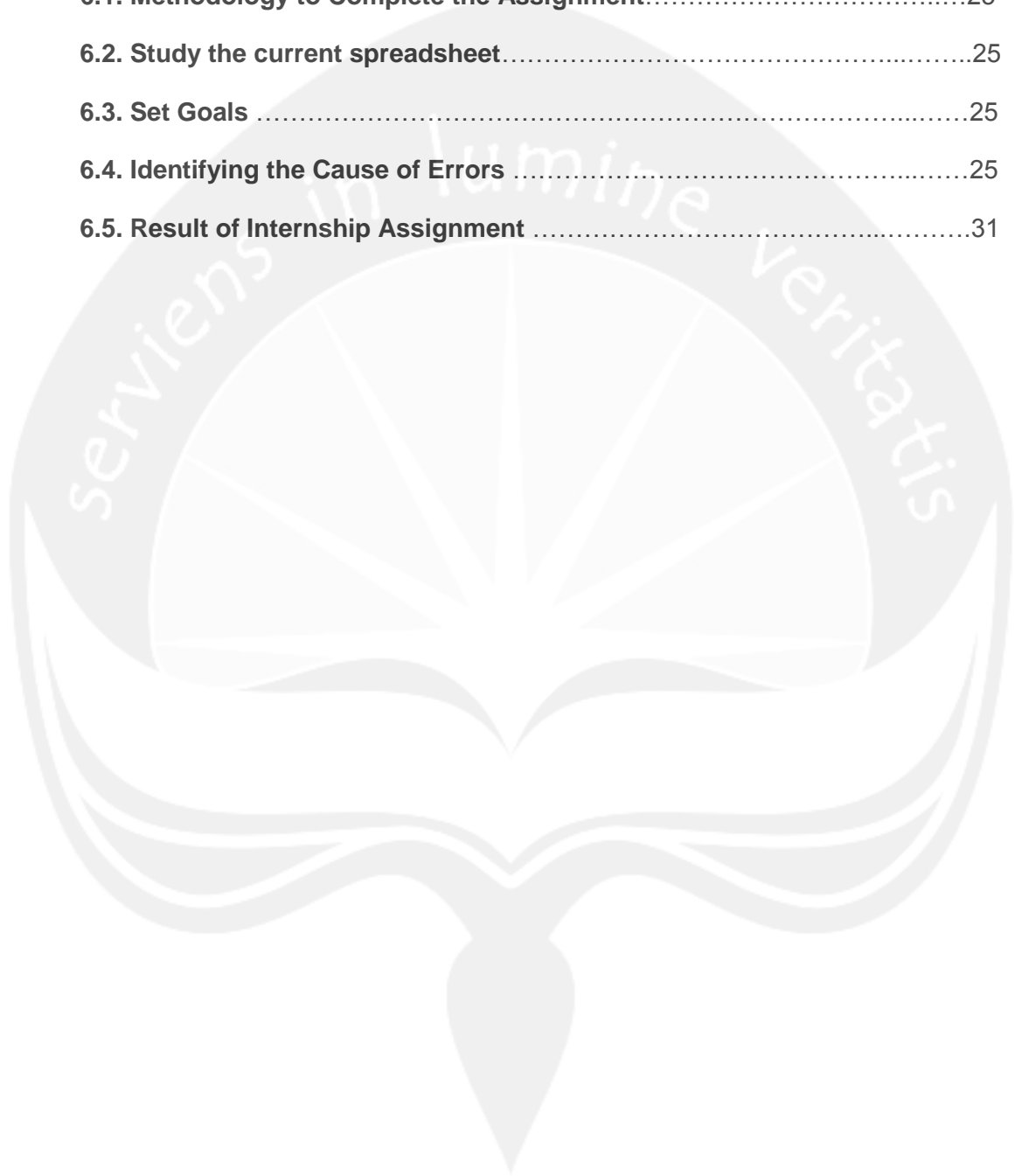


Author

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CHAPTER 1

INTRODUCTION

In this chapter, the background, objective, placement, and the duration of the internship will be explained comprehensively.

1.1. Background of Internship

Department of Industrial Engineering, Universitas Atma Jaya Yogyakarta (PSTI UAJY) defines the internship as a simulator that enables the students not only to apply the Industrial Engineering knowledge into the real-world industry but also to train the student how to be a professional of Industrial Engineer. For this purpose during the internship, the students are requested to work in the host company within a period of month.

The paradigm of the internship is that the students are expected to experience the application of Industrial Engineering knowledge in practice in which it can be obtained if during their internship the students do some activities to enhance their understanding in term of planning, designing, improving, implementing and problem-solving. Therefore during the internship period, the students are requested to:

- a. Doing all the tasks that have been assigned by the host company.
- b. Following all of the relevant working procedures of the host company.
- c. Capturing the big picture of the enterprise system in the host company and observing its characteristics.

Since Industrial Engineer is dealing with the integrated system of some elements which are Man, Machine, Material, Methods, Money, Energy, Environment, and Information, therefore during the internship the students should relate all of their activities in term of system perspective. Based on the explanation above, it is clearly seen that internship is not only gathering the data.

According to Document Curriculum of PSTI UAJY, an internship is an academic course in which the students should register for the course for 3 credits. Then, in order to fulfill the academic requirement of the internship, the students are required to submit an internship report. The performance of the student itself is evaluated both by an on-site supervisor and by the faculty supervisor.

1.2. Objective of Internship

The objective of the internship are:

- Practice discipline
- Improve the interaction between student and his/her ordinate or workmate
- Practice adaptability in the working atmosphere
- Observe the daily work in the host company
- Enhance the Industrial Engineering knowledge in practice by seeing the practical work in the host company
- Enhance the knowledge of enterprise system

1.3. Location and Internship Duration

The internship was conducted in PT. Schneider Electric Indonesia, Cikarang Factory East Jakarta Industrial Park (EJIP) Plot 4 B No. 1-2 Lemah Abang – Bekasi, Indonesia.



Figure 1.1. Schneider Electric Sites Location

The internship was conducted for five months, started from January 30th, 2017 to July 1st, 2017.

1.3.1. Job Placement And Job Assignment

The author was assigned in Method Department in under the supervision of Mr. Adi Widiadi. In the department, the author was responsible for Drawing the Equipment and Layout to support Method Department under the guidance of Mr. Adi Widiadi. In the first month, the author was given several tasks, one of them

was to understand and use Google Sketchup to drawing equipment. Afterward, the author was tasked to drawing layout with Autocad 2010. To look detail of all author task in PT. Schneider Electric Indonesia, the author will attach the daily activity in PT. Schneider Electric Indonesia during the period of internship.



CHAPTER 2

COMPANY BACKGROUND

The background of the company in which the author worked as an intern will be explained in this chapter.

2.1. Company Profile

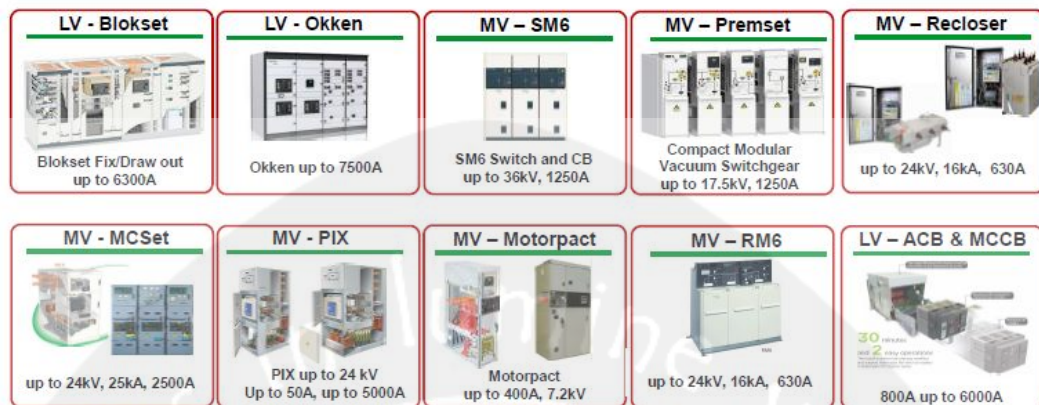
PT. Schneider Electric Indonesia is a global company in the field of energy management and automation. Schneider Electric is a multinational company that produces tools and electrical technology system, which has its headquarters in France. Schneider Electric itself was founded by two brothers, namely Eugène and Adolphe Schneider initially, they both acquired a foundry in Le Creusot, France. In this factory, they focus on doing business in the heavy equipment industry such as ship equipment, railroads, etc.

Eugene and Adolphe remain consistent to create a business, by forming an alliance of family is very strong, the successor to Eugene and Adolphe springing up, businesses that run choppy, until at some point they were in alliance with other companies. Joining Merlin Gerin, Telemecanique and Square D also make "Schneider Group" when it was decided to focus on doing business in the power sector. Schneider Electric are the iron and steel industry, heavy machinery, and ship building in the 19th century. Electricity and automation management in the 20th century. In 170 years of existence, Schneider Electric has risen to numerous challenges and made major strategic choices to become a leader.



Figure 2.1. Schneider Electric Logo

Manufacturing Activities at Cikarang Plant



Confidential Property of Schneider Electric

Life Is On | Schneider Electric

Figure 2.2. Schneider Electric Products

Schneider Electric operation can be seen in the following figure:

Process Flow



Confidential Property of Schneider Electric Page 10

Figure 2.3. Schneider Electric Operation

The above figure shows Schneider electric operations. Schneider Electric operation is divided into two, low voltage and medium voltage. The flow process both of operation are same. From incoming inspection & material storage to mechanical assembly to install components & wiring to quality check & testing to fat and fat meeting room to the last that is packing & delivery process.

2.1.1. Schneider Electric Indonesia

In Indonesia, Schneider Electric has been established since 40 years. Schneider is known as a manufacturer of power tools for system protection, such as MCB (miniature circuit breaker), contactor, Panel electrical medium voltage, etc., especially after they acquired Areva, further solidify the position Schneider as a provider of power tools for system electricity in the distribution network. Schneider Electric not only want to be known as MCB trader but, Schneider Electric in other sectors such as electrical equipment for systems automation and energy monitoring. With the acquisition of Modicon Telemecanique, Tac, Citect SCADA, Control Microsystems, and the last Invensys. Currently Schneider Electric has a very broad scope solution for the electrical system, not only protection system but also the systems automation and energy monitoring.

Schneider Electric itself has several factories in Indonesia to produce electric tools, which are in Pulogadung for the production of panels (1 Factory), Cikarang for the production of panels (1 Factory), Cibitung for the production of Travo, MCCB, and ACCB (2 Factory). But now, Schneider Electric making an improvement to their factory become efficient with move a building and equipment including the process each product in pulogadung and Cibitung to cikarang factory. So, cikarang factory now produces Panel, MCCB, and ACCB and Cibitung only produce Travo. The other plant is in Batam, which focus more on producing electronic components such as sensors, DC Drive, etc. The head office of Schneider Electric Indonesia itself is in Cilandak.

2.1.2. Certification



Figure 2.4. Schneider Electric Certification

As a global company Schneider Electric implement management system:

- a. ISO 9001:2015 about Quality Management System
- b. ISO 14001:2015 about Environment Management System
- c. ISO 50001:2011 about Energy Management System
- d. OHSAS 18001:2007 about Safety Management System and Occupational Health
- e. SMK3 about Safety Management System and Occupational Health in accordance with the requirements of the Ministry of Manpower and Transmigration.
- f. LMK certification about SPLN
- g. TKDN certification about Level of domestic content

2.1.3. Achievement

Schneider Electric's Award:

- a. Award from Minister energy & minerals resources for implementing energy management system
- b. The Winner of SNI Award 2013
- c. Nominee SNI Award 2014
- d. Gold Winner SNI Award 2015 (6 gold)
- e. Gold Winner SNI Award 2016

2.2. Organizational Structure

The author was assigned in Method department operation during the internship period. The organization of the plant and the department can be seen in the following figure.

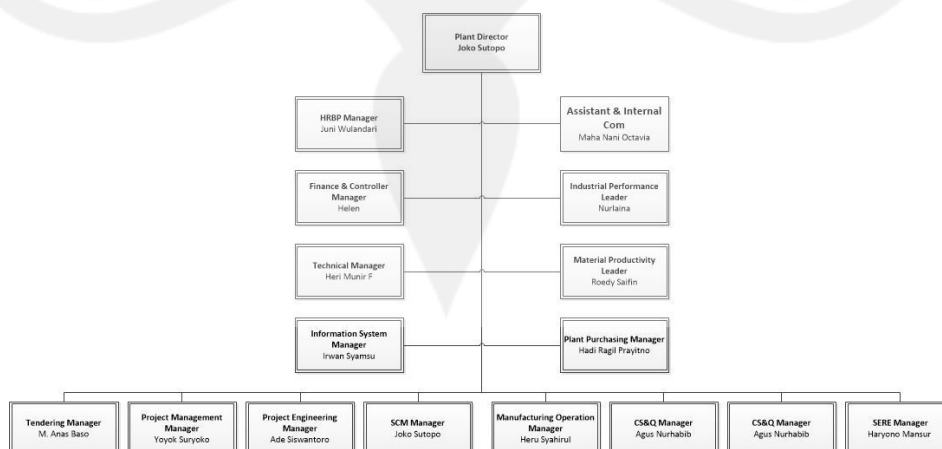


Figure 2.5. Plant Organization Structure

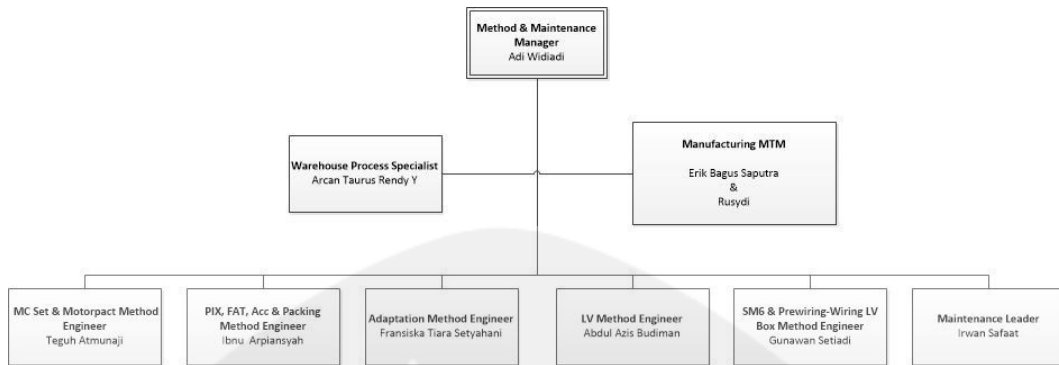


Figure 2.6. Method Department Organization Structure

Job description for each position in Method Department will be explained in the following table.

Table 2.1. Method Department Job Description

No.	Position	Job Description
1.	Method & Maintenance Manager	To plan organize method and maintenance organization including people developments to meet requirements, To prepare and update operational plan for industrial engineering action plan, including Capex and expenses budget and monitoring, etc.
2.	Warehouse Process Specialist	To study and analyze the process in the production line and initiate necessary improvement, To establish a network with other plants engineers of the same field of interest to share best practices information, and etc.
3.	Manufacturing MTM	Lean Mfg SPS, predetermine standard time of production, to measure std time of assy process, optimize time (reduce DT) & Setup database of std time per product family as a reference.
4.	Maintenance Leader	To minimize downtime in production by doing preventive maintenance complete on time greater than 90%, To always consider hazards and environmental aspects, identify hazard in

Table 2.1. Method Department Job Description (Continue)

No.	Position	Job Description
		the workplace and to ensure the work process and its result comply with SHE requirements, and etc.
5.	Method Engineer	Industrial strategic, making layout/relocation, capacity, productivity, and repair factory. Also responsible on simulation activity or manufacture (standard time analysis, industrialization, cost analysis).

2.3. Management of the Company

Schneider Electric's vision and mission are stated as the following:

Vision:

A world where we can all achieve more while using less of our common planet.

Mission:

Helping people make the most of their energy become the global specialist in energy management and management and automation making it become safe, reliable, efficient, connected, and sustainable.

As a multinational company, Schneider Electric believes that attracting talented and diverse workforces is one of the keys to its success. By creating an environment which offers professional and intellectual challenges, which encourages innovation and creativity that leads to success and effective teamwork for its employees, Schneider Electric hopes to achieve its vision.

Schneider Electric also encourages its employees to continue developing their skills and furthering their educations as well as taking part in the improvement of the workplace. Schneider Electric offers Educational Reimbursement Plan that provides employees with financial assistance as they pursue undergraduate and/or advanced degrees. The employees are also encouraged to attend Technical Training (regular training, upgrading skill, and mentoring & coaching), operator versatilities and flexibilities program, energy efficiency program, external seminar, an internal seminar which is related to their jobs and safety induction training for employees and visitor. Not only the employee but Schneider Electric

also give a program to their suppliers, training & develop supplier and Supplier workshop are the name of the program. Schneider Electric also offers a cooperative education program to help students all around the world to experience international and professional working atmosphere and to build their career path. Schneider electric's corporate social responsibility (CSR) is Schneider goes to school and Schneider care program.

The employees and workers satisfaction are also kept by providing supporting facilities for them. Schneider Electric provides pantry, kokarsi, canteen, lactation room, polyclinic, prayer room (Mosque), and free internet for the employee.



CHAPTER 3

COMPANY SYSTEM

The nature of the company in which author worked will be explained in this part of the report.

3.1. Business Process

Method department receiving task from plant director than method department manager give the task to the method engineering for each task and each part/line area. After method engineer receive the task from the manager, the engineer doing their task. When the engineer find the problem, they are making schedule with the manager. They are discuss about several option problem solving to the manager than they ask which one of the problem solving is good to apply in their case. The engineer always giving information about all the task that they do to the manager and inform the progress too. After each engineering solve the problem, they are give the result to the manager and to each another department depend on what they need. For example, method engineer send the project "PIX Panel" to the Quality department to check the quality, send to safety / SERE to check the project are already same with the safety policy or not, send to purchasing for giving information what method engineering needs to purchase, send to production to execution or making the panel, send to scm about material that they need (checking in rack/inventory or just order to the purchasing department. When method department need the material they will call the supplier directly. After the project finish, the product will send to the customer. Than the project line area will receive the Auditing from the auditor in time is not certain.

3.2. Products

Schneider Electric's product divided by two categories:

Low Voltage Products:

1. Okken Evo: Up to 7500A
2. LBS-Blokset: Blokset fix / Draw out Up to 6300A
3. ACB (Adaptation): 800A up to 6000A
4. MCCB (Adaptation): 800A up to 6000A

Medium Voltage Products:

1. PIX (Primary): Up to 24 kV, up to 50A, up to 5000

2. MC SET (Primary): Up to 24 kV, up to 25A, up to 2500A
3. MOTORPACK (Primary): Up to 400A, up to 7,2 kV
4. SM6 (Secondary): Switch and CB up to 36 kV, up to 1250A
5. RM6 (Adaptation): Up to 24 kV, up to 16 kA, up to 630A
6. PREMSET (Adaptation): Compact Modular Vacuum Switchgear up to 17,5 kV, up to 1250 kV
7. RECLOSER (Adaptation): Up to 24 kV, up to 16 kV, up to 630A

3.2.1. Low Voltage Panel

Low voltage panel is a panel that has range until 1 kV.

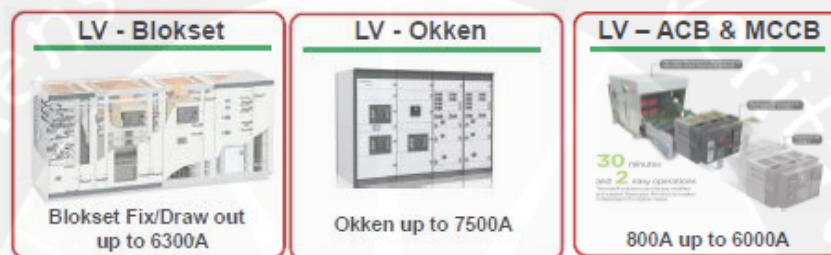


Figure 3.1. Low Voltage Product

3.2.2. Medium Voltage Panel

Medium voltage panel is a panel that has a range above 1 kV and below 100 kV.

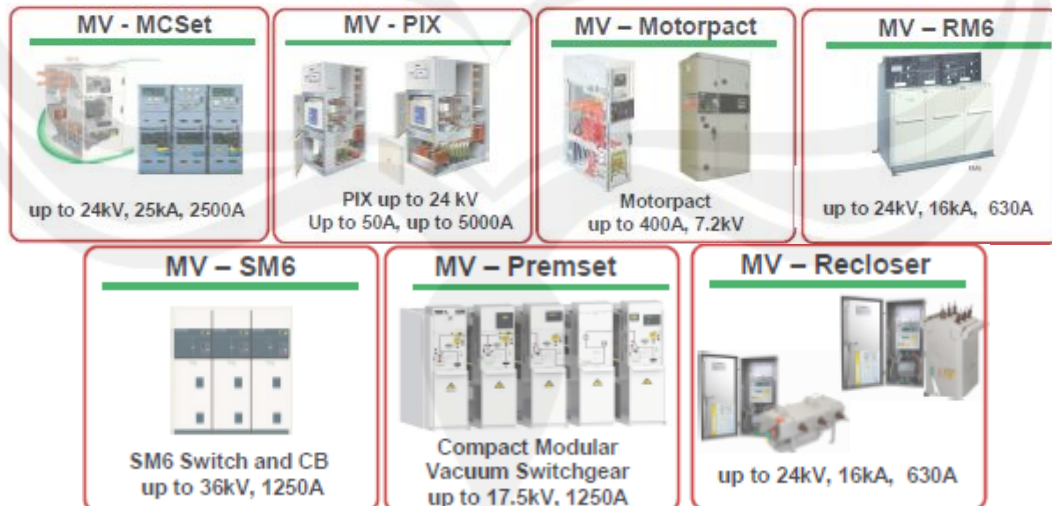


Figure 3.2. Medium Voltage Product

3.3. Production Processes

Schneider Electric's production process follows the general production process. The production process divided by two departments that are Low Voltage and

Medium Voltage. Both of products have differences in volt characteristics that very impact the product making process. If the voltage in some panel is high, so the making process of the panel is more difficult. Below is the flow process for each product:

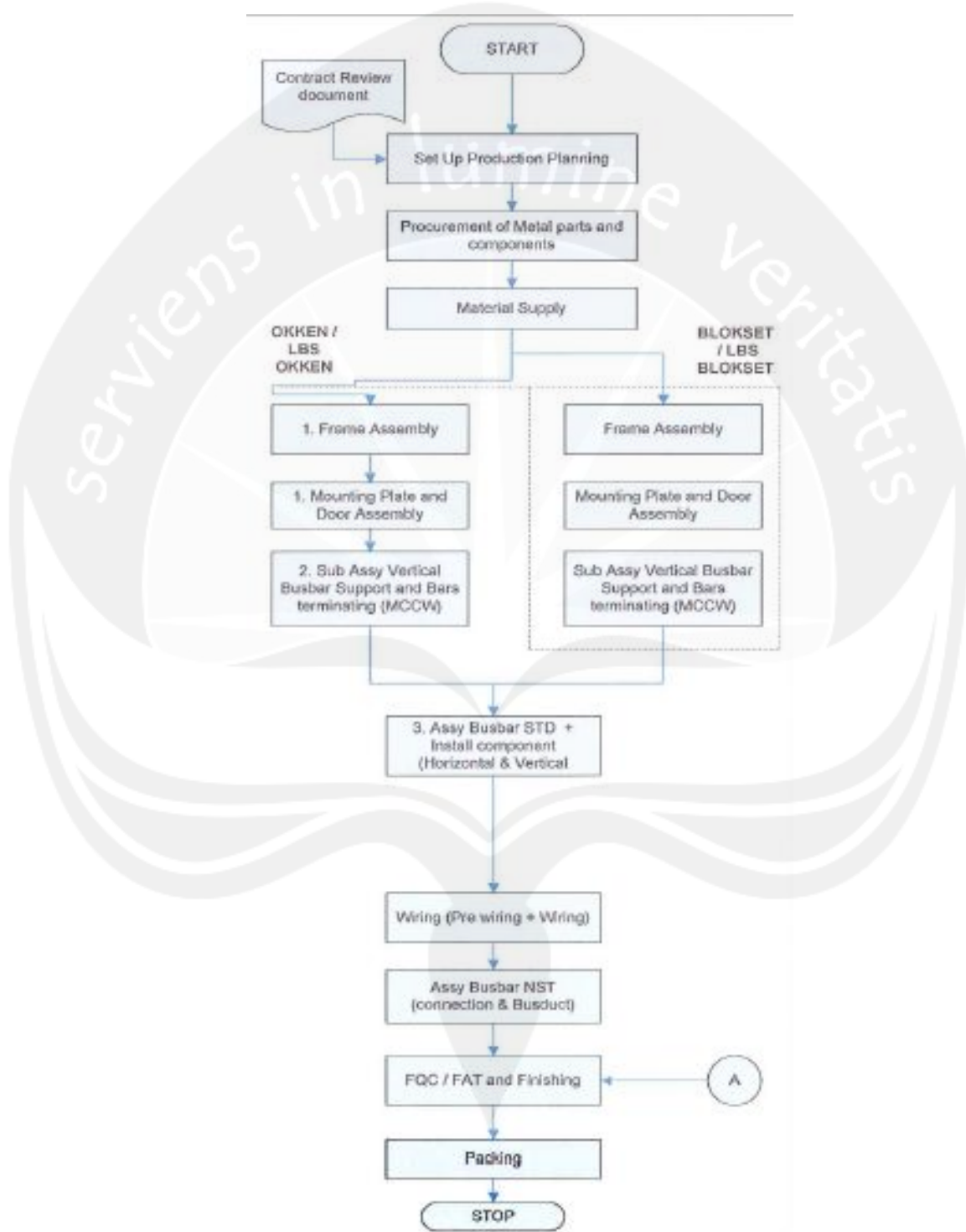


Figure 3.3. Low Voltage Production Process

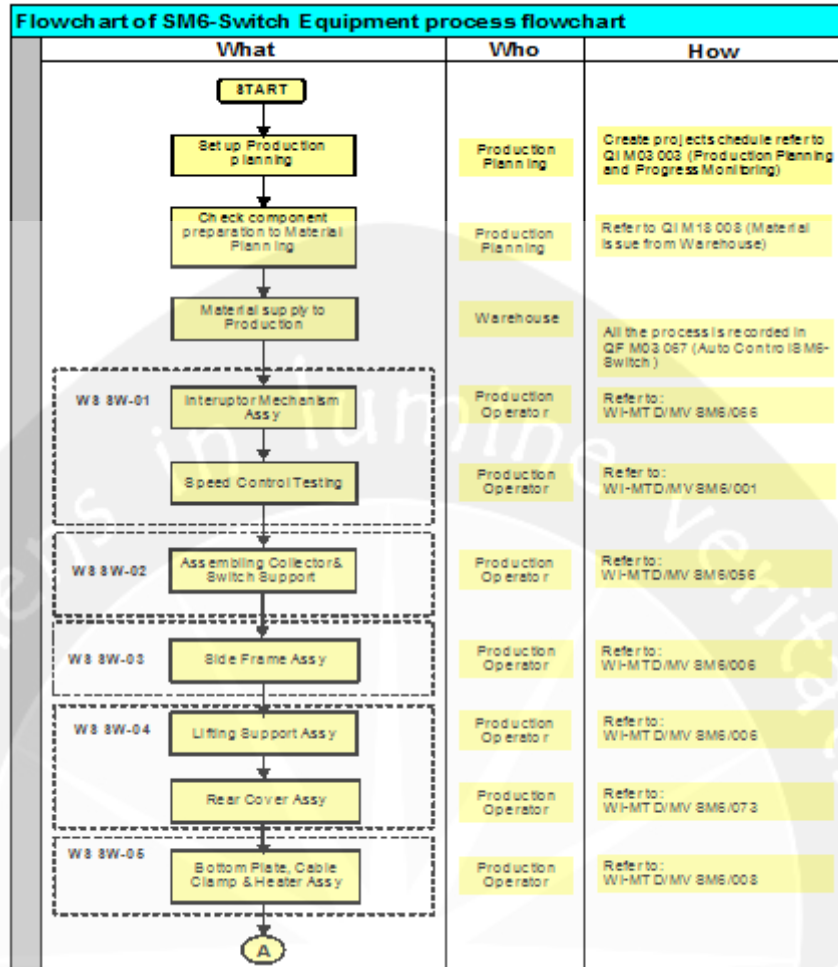


Figure 3.4. Medium Voltage Production Process (continue)

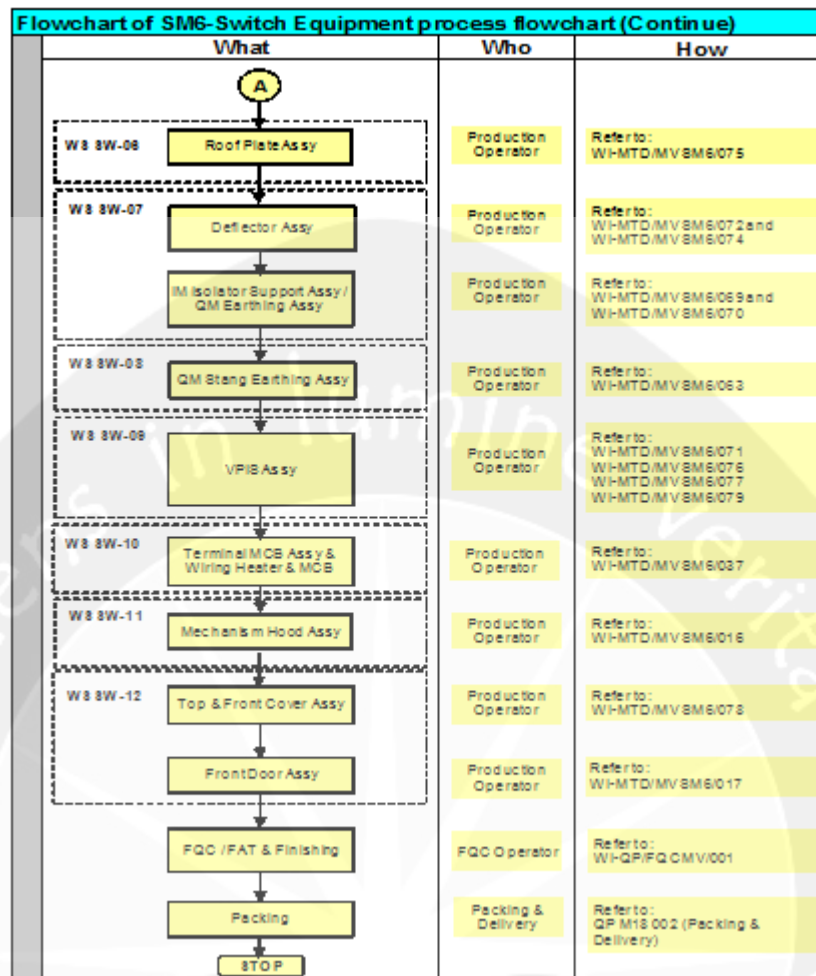


Figure 3.4. Medium Voltage Production Process (continue)

3.4. Production Facilities

Production facilities in Cikarang located in East Jakarta Industrial Park of Indonesia are the main site where all production process is conducted. The facilities in the function will be shown in the following table.

Table 3.1. Production Facilities






No.	Building	Function
1.	Building 1 	<input type="checkbox"/> Warehouse Staging Trolley <input type="checkbox"/> Warehouse Rack <input type="checkbox"/> IQC <input type="checkbox"/> Charging area <input type="checkbox"/> Warehouse office <input type="checkbox"/> ECC <input type="checkbox"/> Air handle unit <input type="checkbox"/> Busbar

Table 3.1. Production Facilities (Continue)

No.	Building	Function
		<input type="checkbox"/> Maintenance area
2.	Building 2 	<input type="checkbox"/> SM6 (SW and CB) <input type="checkbox"/> CB Adaptation <input type="checkbox"/> Training Corner <input type="checkbox"/> FQC SM6 <input type="checkbox"/> Finishing Area
3.	Building 3 	<input type="checkbox"/> Low Voltage Area (Cluster A, Cluster B, Cluster C, Cluster D, Cluster E) <input type="checkbox"/> Drawer <input type="checkbox"/> FAT <input type="checkbox"/> FAT office <input type="checkbox"/> Staging finish good sm6
4.	Building 4 	<input type="checkbox"/> PIX <input type="checkbox"/> MC Set <input type="checkbox"/> Mccb, Acb <input type="checkbox"/> Motorpack <input type="checkbox"/> FAT
5.	Building 5 	<input type="checkbox"/> FAT <input type="checkbox"/> RM6 <input type="checkbox"/> Premset <input type="checkbox"/> Prototype <input type="checkbox"/> Obeya, 36Kv + PIX Adaptation, Competency Center <input type="checkbox"/> Recloser and LBS <input type="checkbox"/> RM6 Testing

CHAPTER 4

INTERNSHIP ASSIGNMENT SCOPE AND RESPONSIBLE

The assignments that have been given to the author during the period of internship will be explained in this chapter.

4.1. Assignment Scope

The author was assigned in Method department during the internship period. Method department is the department that has responsible with every industrial strategic, making layout/relocation, capacity, productivity, and repair factory. Also responsible for simulation activity or manufacture (standard time analysis, industrialization, cost analysis).

Table 4.1. Area of Responsibility

AREAS OF RESPONSIBILITY (Describe the nature, scope, level of improvements to new ideas, etc.)	LEVEL *(Full, Partial, Supportive)	MEASUREMENT (Quantitative or quality criteria to achieve responsibility)
To Regularly analyze the KPI result of the production line he/she in charge in order to prepare an action plan for improvement.	Partial	Industrial KPIs
To ensure that all Lean Mfg SPS-based activities are well implemented & respected in the production line he/she in charge.	Full	SPS line score
To collaborate with MTM Engineer to predetermine standard time of production, to measure std time of assy process, optimize time (reduce DT) & Setup database of std time per product family as a reference.	Partial	DT, Standard Time
To manage new investment and change in production process	Full	IE
To study and analyze the process in the production line and initiate necessary improvement.	Full	IE
To develop and update manufacturing file: Working Instructions for all production lines.	Full	Work Instructions available
To co-lead (w/THS) assembling a prototype of new product type (emphasizing process flow & productivity).		Flow Process available, IE
To collaborate with maintenance operators for any action that needs support from Maintenance.	Partial	Tools calibrated, tools availability, downtime
To regularly carry out VSM, LADM or any other	Partial	Industrial KPIs

Table 4.1. Area of Responsibility (Continue)

AREAS OF RESPONSIBILITY (Describe the nature, scope, level of improvements to new ideas, etc.)	LEVEL *(Full, Partial, Supportive)	MEASUREMENT (Quantitative or quality criteria to achieve responsibility)
tool in order to measure the performance of the production line.		
To collaborate with Purchasing to get the best alternatives of suppliers for optimum productivity in each improvement project (action).	Partial	Productivity
To establish a network with other plants engineers of the same field of interest to share best practices information.	Partial	Industrial Excellence Level
To develop his/her People (Communication) Skill in order to persuade people in order to bring out their best performance of him/her or his/her Team.	Partial	Solid Project Team. Project Result
To ensure that SHE (Safety, Health, and Environment) is always considered in all improvements or changes implemented in production lines.	Partial	NDL, Frequency Rate and Seriousness Rate, 6S Score

*Full : Fully responsible for the results of the work

Partial : Partially responsible for the results of the work

Supportive : Provide support to the person accountable for the results of the work.

MTM : Method Time Measurement

The author was given the several tasks from the company. the task that given to the author are different. All the task that author work from method department, SERE Department, Manufacturing Leader Manager, Quality Control Department, THS Department.

Table 4.2. Task and Project

No.	Task and Project	No.	Task and Project
1.	Making a label to support Kanban system in Production Area.	6.	Discuss and Drawing new layout for air handling unit area, Staging warehouse trolley, sm6 36kV, obeya, automation, competency center, New RM6.
2.	Drawing equipment with Sketchup.	7.	Order Jig to the supplier.

Table 4.2. Task and Project (Continue)

No.	Task and Project	No.	Task and Project
3.	Drawing layout with Autocad.	8.	Calculate the cycle time in adaptation area to order new trolley.
4.	Production Tracking 2017.	9.	Order New Trolley to the supplier.
5.	Making Value Stream Mapping (Current and Future state).	10.	Making spaghetti chart of the warehouse.
11.	Drawing New Trolley.	26.	Making Forklift route by using Autocad.
12.	Making tools for support VSM Meeting.	27.	Drawing Air Pipe location by using Autocad.
13.	Making Scenario for PIX 1 and PIX 2 video.	28.	Update the plant dashboard each month.
14.	Making Demo Video of PIX	29.	Organize consumable bin and cable duct.
15.	Trial Software Barcode.	30.	Write all worker activity of the PIX Post E and Post F.
16.	Audit Busbar and Adaptation area.	31.	Organize the Go Wet Ticket for "Schneider Gathering".
17.	Training PKL Student.	32.	Adding the fence for the RM6 Testing area and warehouse staging trolley area.
18.	Checking task of PKL Student.	33.	Input PIX Data of THS department.
19.	Relayout Office for the hot room, manager room, and Wudhu area.	34.	Placement the table of Warehouse leader.
20.	Making Plat for APD Board.	35.	Making a list of scrue table.
21.	Checking stock of consumable material in the warehouse.	36.	Marking line area based on SEC layout.
22.	Reformat form Production tracking 2017.	37.	Support all of the method engineers.

Table 4.2. Task and Project (Continue)

No.	Task and Project	No.	Task and Project
23.	Making route for a grand opening in Autocad.	38.	Making layout of evacuation area with Mr. Baskoro
24.	Making Tag Name for the customer.	39.	Clear the UG PIX in choice grid PIX 12, 17, 24, 40, and 50
25.	Training Operator for labeling.		

The author was given the several tasks. One of the tasks is about making layout and relayout with Autocad 2010. This task including measure each area, sketch area, name the area, giving color, giving layer, giving dimension, and making PDF at the end of the project. And for several area or building need to be printed with size A3.

The author also gave the task to drawing the tools and equipment in Project P to Ci to support Mr. Nurul's project before the deadline, that is "Grand Opening of PT. Schneider Electric Cikarang".

4.2. Rights and Responsibilities in the Assignment

This rights and responsibilities the author had during the period of internship and project will be explained in this sub-chapter.

4.2.1. Rights

The author was allowed to:

- Visit all plant area
- Measure all plant area
- Photo all plant area
- Sketch all plant area
- Got the Access ID, safety vest, and safety shoes
- Access the UG PIX file

4.2.2. Responsibilities

The role of industrial engineers are Design, Install, and Improve. Design is the first role which IERs must creatively combine their skills and knowledge in designing a better system. This could be a production system, service systems or a solution system. A system of solution is a way to deliver a multi-approach,

multi-discipline and multi-dimension solutions. This “multi” solutions are needed especially while facing a complex problems. The second role, Install is be able to define task and activities needed to install the systems. With this ability, they were forced to think ahead when designing the systems. So both are interrelated. Improves is also the same as management. Management experts believe that there is a different between administration and management. Administration focuses on the efficiency of repeating processes or services. Management improves the efficiency and effectiveness of administrations and other systems. Therefore, problem solving skills are very important. As an engineer, the author was responsible to design a layout and relayout of the Schneider Electric Cikarang Plant. Also, responsible to improve the UG PIX data by finding, checking, and solving the data. The author was also obliged to keep the information and documents related to the project confidential.

CHAPTER 5

INTERNSHIP FIRST PROJECT

The first assignment that have been given to the author during the period of internship will be explained in this chapter.

5.1. Methodology to Complete the Assignment

To complete the assignment, the first thing that the author did was to study the AutoCad 2010 and visit all plant area. After the software and plant area were understood, the next thing to do was to find the possible cause of errors and list them. During the project, the author also took the notes to the things that can be added into the process of making a layout. The framework of this project can be seen in figure 4.1. below.

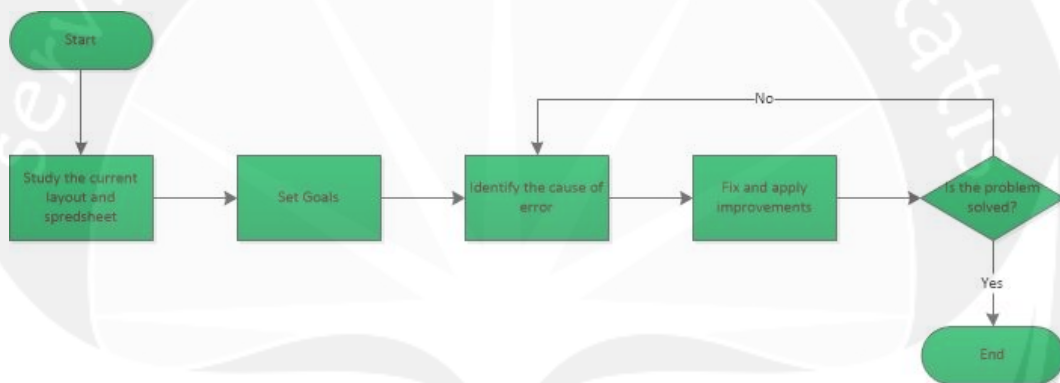


Figure 5.1. Methodology

5.2. Study the current layout and spreadsheet

AutoCAD is a commercial computer-aided design (CAD) and drafting software application. AutoCAD is software to help the user to make a sketch or design of some object. In this case, the author using the AutoCAD to drawing the layout. To make the layout, the author needs to visit all plant area to know the main image before starting to drawing the layout in AutoCAD. In visiting each area the author must be careful in see the current area. And when the area was change, the author must be relayout in the AutoCAD or in another case the author needs to be relayout the current area in the location and draw the new layout in AutoCAD.

5.3. Set Goals

Based on the current situation in the location, the desired result of the project would be to fix the current layout and relayout in AutoCAD 2010 by following the current condition in the plant area.

5.4. Identifying the Cause of Errors

In order to identify the cause of the error, the relationships among the area must be understood. To identify the cause of the error, the author must measure the corner of the area. To make sure the author was not mistaken in order to make the layout, the author sketch every area in notes. Because the plant area is like box which has 4 sides, the author must be measured, photo, sketch start from 1 side. The author draws the layout start from the left side that is from Busbar Area to charging area.

From the explanation above, the easiest way to identify the cause of the error is to check on the left side and right side area in AutoCAD. If the size of the left and right side are not the same or too long the size more than the tolerance that is false or the author must measure the area again. The cause of errors will be explained according to the result.

5.4.1. Measuring

The author must measure each area by using the distance measuring device. In measuring the area the author must be careful. Each area has a different size and sometimes several areas cannot be measure because of another equipment or machine.

5.4.2. Sketch

In sketch each area, the author must bring the notes to sketch and put the number of size from measuring the area in the notes. In the sketch the area, the author must sketch the real situation in the location. The author must be written and sketch area name, line color, machine name, and the size each area.

5.4.3. Taking photo

Taking photo is the step to make sure that the author writes and sketch in the notes are right. The author photo the area from several sides to make clear the detail of each area.

5.4.4. Modifying the current layout

In modifying the current layout, the author got the task to make a new sketch area than making the drawing layout of the area by AutoCAD.

5.5. Result of Internship Assignment

The goal of this project was to design a layout and relayout in plant area. The author makes the detail by sketch, photo, and measure each area. The main focus of this project is to draw the current layout. But, any several areas that author made by future area condition like sm6 36kV, obeya, competency center, automation area, RM6 area, and air handling unit area. And another main focus is to determine product type from choice grid with UG number. After the author finish the project, company using the author's project.

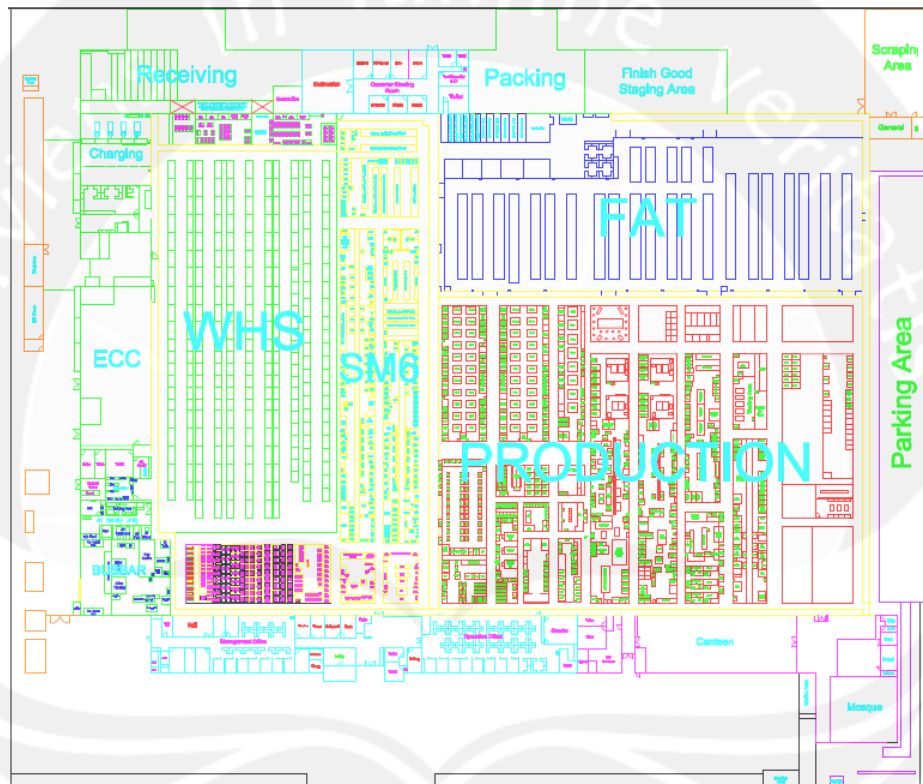


Figure 5.2. Schneider Electric Layout

CHAPTER 6

INTERNSHIP SECOND PROJECT

The second assignment that have been given to the author during the period of internship will be explained in this chapter.

6.1. Methodology to Complete the Assignment

To complete the assignment, the first thing that the author did was to study the UG Number and Choicegrid data. After the UG Number and Choicegrid data were understood, the next thing to do was to find the possible cause of errors and list them. The framework of this project can be seen in figure 4.1. below.

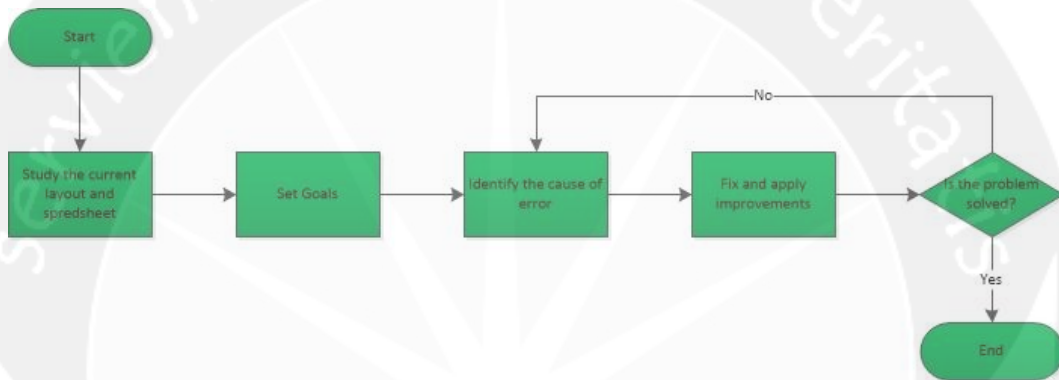


Figure 6.1. Methodology

6.2. Study the current layout and spreadsheet

UG Number is a product code. To improve the UG PIX data by finding, checking, and solving the data need several information such as chapter, where the product exist (DT PIX 12/17/24/M40), weight, width, etc. To start looking for the product type, the author have to study the current data and study each element for.

6.3. Set Goals

Based on the current data, the goal of this project was to improve the UG PIX data by finding, checking, and solving the data.

6.4. Identifying the Cause of Errors

In order to identify the cause of the error, the relationships between the data must be understood. To identify the cause of the error, the author need to:

6.4.1. Organize the PIX UG Number

Open the UG PIX file. Then, organize the data that have no result on “UG CG-16”.

G3		UG CG-16					
	A	B	C	D	E	F	G
1	ALL UG from DT PIX-12-17-24-M40						
2	Update DT: April 27, 2017						
3	UG	Description	Chapter	Type	PIX	Width	UG CG-16
4	AINC75054-01	Front cubicle	01.02	FH	PIX-12	650	
5	AIN665516-01	Front cubicle Special optical sensor	01.02	FH	PIX-12	650	
6	AGSC75070-01	LV wiring clamp	01.03	FH	PIX-12	650	AGSC75070-01
7	AINC75055-01	Rear Unit 1405mm No Heater on Segregation	01.05	FH	PIX-12	650	
8	AINC75055-15	Rear Unit 1605mm No Tunnel & No Handle on rear cover	01.05	FH	PIX-12	650	
9	AIN662911-01	Rear Unit 1405mm With Heater on Segregation	01.05	FH	PIX-12	650	
10	AINC75055-05	Rear Unit 1605mm with Tunnel & No Handle on rear cover	01.05	FH	PIX-12	650	
11	AINC75055-65	Rear Unit 1605mm with Tunnel & With ARC sensor (VAM)	01.05	FH	PIX-12	650	
12	AINC75055-25	Rear Unit 1605mm with Tunnel & Handle on rear cover	01.05	FH	PIX-12	650	
13	AIN664883-01	Rear Unit 1605mm no Tunnel & no Handle on rear cover	01.05	FH	PIX-12	650	
14	AIN664902-01	Rear Unit 1605mm with Tunnel & no Handle on rear cover	01.05	FH	PIX-12	650	
15	AIN664901-01	Rear Unit 1605mm with Tunnel & no Handle on rear cover	01.05	FH	PIX-12	650	
16	AIN664903-01	Rear Unit 1605mm with Tunnel & Handle on rear cover	01.05	FH	PIX-12	650	
17	AIN665517-01	Rear Unit 1605mm No Tunnel, No Handle on rear cover & Special op	01.05	FH	PIX-12	650	
18	AGSC75107-01	Rear cover with bolted panel	01.15	FH	PIX-12	650	
19	AGSC75122-01	Pression relief flaps	01.16	FH	PIX-12	650	
20	AGSC75079-06	Floor for withdrawable VT's AIN or without VT's	01.17	FH	PIX-12	650	
21	AGSC75079-01	Floor for withdrawable VT's AGS or with fixed VT's	01.17	FH	PIX-12	650	
22	AIN101115-21	Adhesive Label Lever hole on door	07.01	FH	PIX-12	650	Local Design
23	AIN002733-01	WVT AGS In cable compartment	07.08	FH	PIX-12	650	
24	AINC75293-11	Support fix VT DIN 12 Kv & DIN 24 Kv without / with fuses	07.01	FH	PIX-12	650	
25	AIN000040-11	WVT AIN With VTB- DIN 12 / VTB-12	07.01	FH	PIX-12	650	
26	AIN665359-02	Support fix VT's DIN 24 / VTB 24-2B1S without / with fuses	07.01	FH	PIX-12	650	
27	AIN664475-01	WVT AIN With VTB- DIN 12 / VTB-12 (Screen / phase)	07.01	FH	PIX-12	650	
28	AIN664475-02	WVT AIN With VTB- DIN 12 / VTB-12 (Screen end left + end Right)	07.01	FH	PIX-12	650	
29	AMT005250-01	Earthing Withdrawable VT AGS	07.09	FH	PIX-12	650	
30	AIN661957-12	Bracket Socket Withdrawable AIN	07.01	FH	PIX-12	650	
31	AIN000889-02	Connection fix VT phase to earth VT's DIN 12 Kv with fuse	07.02	FH	PIX-12	650	
32	AIN000889-01	Connection fix VT phase to earth VT's DIN 12 Kv without fuse	07.02	FH	PIX-12	650	
33	AIN000889-22	Connection fix VT phase to earth VT's DIN 24 Kv with fuse	07.02	FH	PIX-12	650	
34	AIN665358-04	Connection fix VT phase to earth VT's DIN 24 / VTB 24-2B1S with fus	07.02	FH	PIX-12	650	
35	AIN660772-22	Bracket MicroSwitch Withdrawable AIN	07.01	FH	PIX-12	650	
36	AIN665700-01	Lower Door With hinges with SOREM 75 Phase R,S,T	01.23	FH	PIX-12	650	
37	SEM102054-19	Lower Door With hinges & With key	01.23	FH	PIX-12	650	
38	SEM102054-05	Lower Door Without hinges & Without handle	01.23	FH	PIX-12	650	
39	AIN102054-59	Lower Door With hinges & Without key	01.23	FH	PIX-12	650	
40	AIN102054-15	Lower Door Without hinges & With handle	01.23	FH	PIX-12	650	
41	AIN102054-39	Lower Door With hinges & With key + Handle	01.23	FH	PIX-12	650	
42	AIN663417-11	Lower Door Without hinges with SOREM 75 Phase S only	01.23	FH	PIX-12	650	
43	AIN102054-05	Lower Door WVT's AIN Without hinges & Without handle	01.23	FH	PIX-12	650	

Figure 6.2. UG PIX File

Making table with description (UG, description on choice grid, description from STR, chapter, and description).

Fill the table with UG number that doesn't have a result and already organize.

G1		PIX			
	A	B	C	D	E
1	UG NUMBER	DESC FROM STR	Chapter	Description on Choice Grid	Description
2	AGSC72805-01				
3	AGSC72805-21				
4	AGSC72877-03				
5	AGSC72877-03				
6	AGSC72878-03				
7	AGSC72878-03				
8	AGSC72879-03				
9	AGSC72879-03				
10	AGSC73052-45				
11	AGSC73052-46				
12	AGSC73052-47				
13	AGSC73052-55				
14	AGSC73052-56				
15	AGSC73052-57				
16	AGSC73052-59				
17	AGSC73052-69				
18	AGSC73052-70				
19	AGSC73052-71				
20	AGSC73052-73				
21	AGSC73052-79				
22	AGSC73052-81				
23	AGSC73052-82				
24	AGSC73052-83				
25	AGSC73052-84				
26	AGSC73052-85				
27	AGSC73052-86				
28	AGSC73052-87				
29	AGSC73052-88				
30	AGSC73052-89				
31	AGSC73052-90				
32	AGSC73052-91				
33	AGSC73052-92				
34	AGSC73052-93				
35	AGSC73054-81				
36	AGSC73054-82				
37	AGSC73054-83				
38	AGSC73062-61				
39	AGSC73062-62				
40	AGSC73062-63				
41	AGSC73062-64				
42	AGSC73062-65				
43	AGSC73062-71				
44	AGSC73062-72				
45	AGSC73062-73				
46	AGSC73062-74				
47	AGSC73062-75				
48	AGSC73062-76				

Figure 6.3. UG PIX Table

6.4.2. Find the problem

Open excel file of New sheet that have no chapter and description with file of choicegrid 12, 17, 24, and M40. Than copy and paste one by one each UG Number in choicegrid excel file to find the the chapter and to know how much chapter in one UG Number that have different chapter. After the author find the chapter of UG Number than the author write the chapter with choose the top of the coloum in finding the chapter in New sheet before. When all the chapter of UG Number already finding, the author open the choicegrid file again to find the information that need to write in notepad. After that, the author find the information about the type product from UG Number to DT PIX file. DT PIX 12, DT PIX 17, DT PIX 24 are the file for looking for the product type. If the UG number that author find doesn't exist, it means that author product type never exist. If the author find it, than the author just put in the product type in new sheet before.

Open file of "choice grid". Then, find the "description on choice grid" and "chapter". "description on choice grid" is on the top of the chapter that author looking for. For example in this image in the top of chapter 05.17 voltage indicator

display. If in columns of “sheet” any more than one option, than just choose one every different chapter.

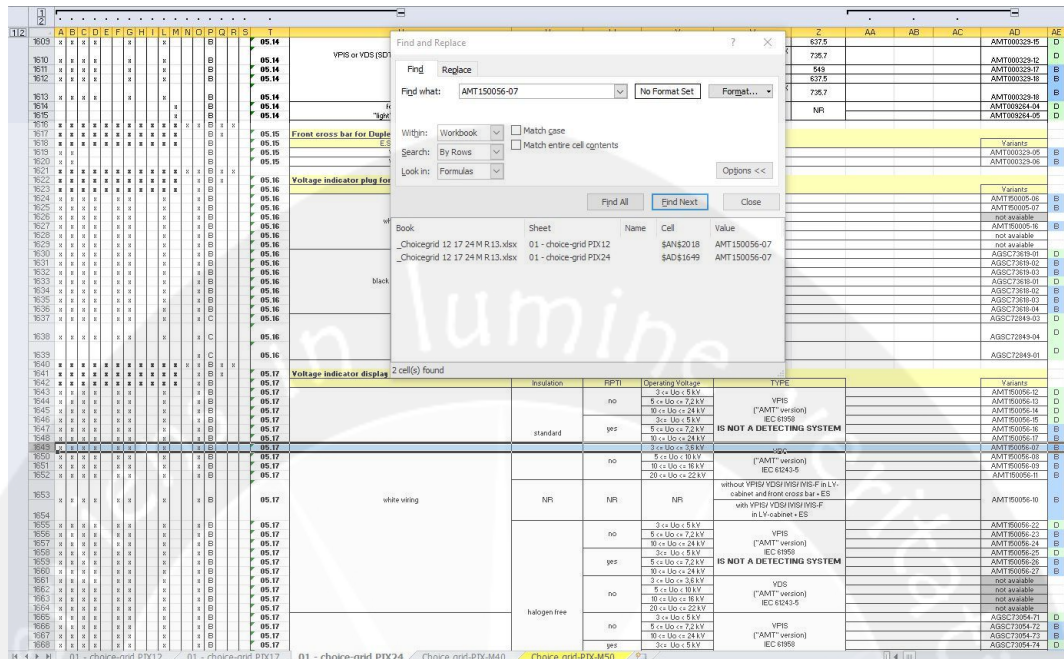


Figure 6.4. Choice grid file

Than fill the table with “chapter” and “description on choice grid” that already found.

1	A	B	C	D	E
1	UG NUMBER	DESC FROM STR	Chapter	Description on Choice Grid	Description
2	AGSC72805-01		01.04	C.B. - L.V. Plug (other wire-colors can be used by local customization)	
3	AGSC72805-21		01.04	C.B. - L.V. Plug (other wire-colors can be used by local customization)	
4	AGSC72877-03		03.01	Copper connections in cable compartment	
5	AGSC72877-03		03.04	Cable connection from CVX side to HV-cable connection	
6	AGSC72878-03		03.01	Copper connections in cable compartment	
7	AGSC72878-03		03.04	Cable connection from CVX side to HV-cable connection	
8	AGSC72879-03		03.01	Copper connections in cable compartment	
9	AGSC72879-03		03.04	Cable connection from CVX side to HV-cable connection	
10	AGSC73052-45		01.04	C.B. - L.V. Plug (other wire-colors can be used by local customization)	
11	AGSC73052-46		01.04	C.B. - L.V. Plug (other wire-colors can be used by local customization)	
12	AGSC73052-47		01.04	C.B. - L.V. Plug (other wire-colors can be used by local customization)	
13	AGSC73052-55		01.04	C.B. - L.V. Plug (other wire-colors can be used by local customization)	
14	AGSC73052-56		01.04	C.B. - L.V. Plug (other wire-colors can be used by local customization)	
15	AGSC73052-57		01.04	C.B. - L.V. Plug (other wire-colors can be used by local customization)	
16	AGSC73052-59		01.04	C.B. - L.V. Plug (other wire-colors can be used by local customization)	
17	AGSC73052-69		05.11	E.S. signal system Plug for E.S. on cable	
18	AGSC73052-70		05.11	E.S. signal system Plug for E.S. on cable	
19	AGSC73052-71		05.11	E.S. signal system Plug for E.S. on cable	
20	AGSC73052-73		05.06	OPTION E.S. motor: Wiring for ES motor	
21	AGSC73052-79		05.11	E.S. signal system Plug for E.S. on cable	
22	AGSC73052-81		05.11	E.S. signal system Plug for E.S. on cable	
23	AGSC73052-82		05.11	E.S. signal system Plug for E.S. on cable	
24	AGSC73052-83		05.11	E.S. signal system Plug for E.S. on cable	
25	AGSC73052-84		05.11	E.S. signal system Plug for E.S. on cable	
26	AGSC73052-85		05.11	E.S. signal system Plug for E.S. on cable	
27	AGSC73052-86		05.11	E.S. signal system Plug for E.S. on cable	
28	AGSC73052-87		05.11	E.S. signal system Plug for E.S. on cable	
29	AGSC73052-88		05.11	E.S. signal system Plug for E.S. on cable	
30	AGSC73052-89		05.11	E.S. signal system Plug for E.S. on cable	
31	AGSC73052-90		05.11	E.S. signal system Plug for E.S. on cable	
32	AGSC73052-91		05.11	E.S. signal system Plug for E.S. on cable	
33	AGSC73052-92		05.11	E.S. signal system Plug for E.S. on cable	
34	AGSC73052-93		05.06	OPTION E.S. motor: Wiring for ES motor	
35	AGSC73054-81		02.19	Support for Signalling and coding	
36	AGSC73054-82		02.19	Support for Signalling and coding	
37	AGSC73054-83		02.19	Support for Signalling and coding	
38	AGSC73062-61		06.11	wiring for the 1st CT set with 3 CT's double ratio only	
39	AGSC73062-62		06.11	wiring for the 1st CT set with 3 CT's double ratio only	
40	AGSC73062-63		06.11	wiring for the 1st CT set with 3 CT's double ratio only	
41	AGSC73062-64		06.13	wiring for the 2nd CT set with 3 CT's double ratio only	
42	AGSC73062-65		06.13	wiring for the 2nd CT set with 3 CT's double ratio only	
43	AGSC73062-71		06.10	Wiring for the 1st CT set with 3 CT's single ratio only	
44	AGSC73062-72		06.10	Wiring for the 1st CT set with 3 CT's single ratio only	
45	AGSC73062-73		06.10	Wiring for the 1st CT set with 3 CT's single ratio only	
46	AGSC73062-74		06.12	wiring for the 2nd CT set with 3 CT's single ratio only	
47	AGSC73062-75		06.12	wiring for the 2nd CT set with 3 CT's single ratio only	
48	AGSC73062-76		06.10	Wiring for the 1st CT set with 3 CT's single ratio only	

Figure 6.5. UG PIX Table

[illegible][illegible]

29

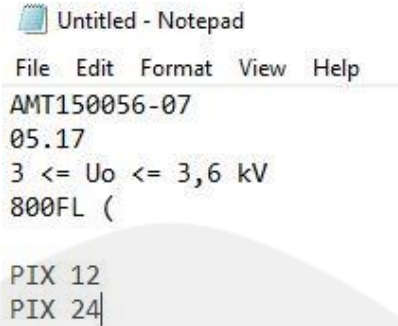


Figure 6.8. Notepad

6.4.3. DT PIX 12, 17, 24

Open the file of DT PIX (12, 17, dan 24) according the description in the "Sheet". for example 01 - choice-grid PIX24 (show the location in DT PIX 24 file).

Open sheet according to the data in the notepad before. find the data of UG number by using the number of chapter.

The data that can be accepted only in green background.

Then, look the right side of the row in the blue line. That is the result. If ther is any UG Number, it means that the UG number before have to change become AINN04454-22.

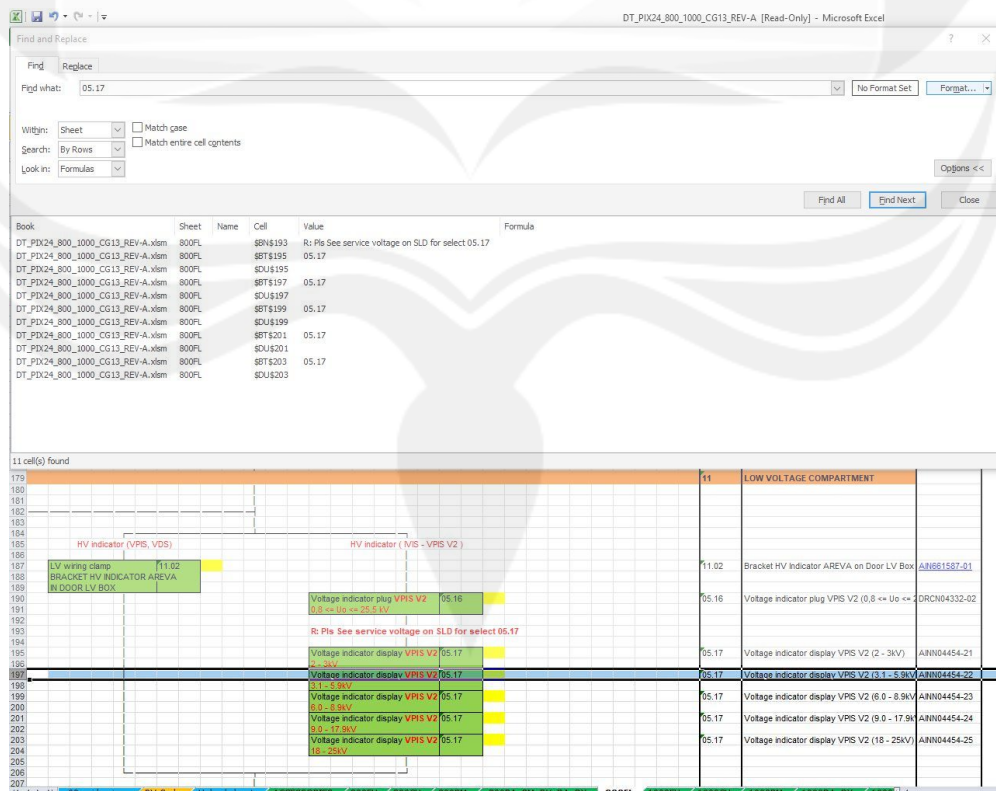


Figure 6.9. DT PIX 24 File

In this example author found two different chapter (05.17 and 04.21). Before, 05.17 already got the result if the UG Number have to change and about looking for the result of UG number of chapter 04.21 could be the same as like looking for UG number of chapter 05.17. The result of 04.21 is never used (OPTION ES on busbar (on top) : Voltage indicator display) because the result is not found in the file of DT PIX.

6.5. Result of Internship Assignment

The result of this project is there are 24 UG Numbers that empty product or unused product with yellow color in the table and another UG Number was change by new UG Number. The goal of this project was to improve the UG PIX data by finding, checking, and solving the data. The author using choicegrid data to improve the UG PIX. By finding the chategory needed, checking all the product availability, and solving by changes the UG Number with new UG Number or giving the yellow color for empty product. After the author finish the project, Mr. Ferdy using the author's project.

A	B	C	D	E	F	G
UG NUMBER	DESC FROM STR	Chapt	Description on Choice Grid	Description	Width	PIX
EIBAE1078-01	WEDGE	01.01	Transport base for cubicle	Tidak pernah digunakan		
SEM106050-14	FRONT UNIT	01.02	Front cubicle	Change to AGSC75054-22	800	24
SEM106050-34	FRONT UNIT	01.02	Front cubicle	Change to AIIIC75054-16	750	17
EIBAE1090-01		01.03	Cable plate + clamp	Need Check by pak ferdi		
AGSC72805-01	WRING PACKAGE	01.04	C.B. - L.V. Plug (other wire-colors can be used by local customization)	defind di electrical komponen		
AGSC72805-21	WRING PACKAGE	01.04	C.B. - L.V. Plug (other wire-colors can be used by local customization)	defind di electrical komponen		
AGSC73052-45	WRING PACKAGE	01.04	C.B. - L.V. Plug (other wire-colors can be used by local customization)	defind di electrical komponen		
AGSC73052-46	WRING PACKAGE	01.04	C.B. - L.V. Plug (other wire-colors can be used by local customization)	defind di electrical komponen		
AGSC73052-47	WRING PACKAGE	01.04	C.B. - L.V. Plug (other wire-colors can be used by local customization)	defind di electrical komponen		
AGSC73052-55	WRING PACKAGE	01.04	C.B. - L.V. Plug (other wire-colors can be used by local customization)	defind di electrical komponen		
AGSC73052-56	WRING PACKAGE	01.04	C.B. - L.V. Plug (other wire-colors can be used by local customization)	defind di electrical komponen		
AGSC73052-57	WRING PACKAGE	01.04	C.B. - L.V. Plug (other wire-colors can be used by local customization)	defind di electrical komponen		
AGSC73052-59	WRING PACKAGE	01.04	C.B. - L.V. Plug (other wire-colors can be used by local customization)	defind di electrical komponen		
AGSC73353-01	WRING PACKAGE	01.04	C.B. - L.V. Plug (only Halogen free)	defind di electrical komponen		
AGSC73353-02	WRING PACKAGE	01.04	C.B. - L.V. Plug (only Halogen free)	defind di electrical komponen		
AMT150000-01	WRING PACKAGE	01.04	C.B. - L.V. Plug (other wire-colors can be used by local customization)	defind di electrical komponen		
AMT150000-03	SET OF CONDUCTORS	01.04	C.B. - L.V. Plug (other wire-colors can be used by local customization)	defind di electrical komponen		
AMT150000-04	WRING PACKAGE	01.04	C.B. - L.V. Plug (other wire-colors can be used by local customization)	defind di electrical komponen		
AMT150000-11	SET OF CONDUCTORS	01.04	C.B. - L.V. Plug (other wire-colors can be used by local customization)	defind di electrical komponen		
AMT150000-12	WRING PACKAGE	01.04	C.B. - L.V. Plug (other wire-colors can be used by local customization)	defind di electrical komponen		
AMT150000-13	WRING PACKAGE	01.04	C.B. - L.V. Plug (other wire-colors can be used by local customization)	defind di electrical komponen		
AMT150000-14	SET OF CONDUCTORS	01.04	C.B. - L.V. Plug (other wire-colors can be used by local customization)	defind di electrical komponen		
AMT150000-21	WRING PACKAGE	01.04	C.B. - L.V. Plug (other wire-colors can be used by local customization)	defind di electrical komponen		
AMT150000-23	SET OF CONDUCTORS	01.04	C.B. - L.V. Plug (other wire-colors can be used by local customization)	defind di electrical komponen		
AMT150000-24	WRING PACKAGE	01.04	C.B. - L.V. Plug (other wire-colors can be used by local customization)	defind di electrical komponen		
AMT150000-31	SET OF CONDUCTORS	01.04	C.B. - L.V. Plug (other wire-colors can be used by local customization)	defind di electrical komponen		
AMT150000-33	WRING PACKAGE	01.04	C.B. - L.V. Plug (other wire-colors can be used by local customization)	defind di electrical komponen		

Figure 6.10. Result of UG Number PIX

	A	B	C	D	E	F	G
	UG NUMBER	DESC FROM STR	Chapt	Description on Choice Grid	Description	Width	PX
29	AMT150000-34	SET OF CONDUCTORS	01.04	C.B. - L.V. Plug (other wire-colors can be used by local customization)	Change to AIH102054-59 (Checked by pak ferdi)		12
30	AMT150000-42	WIRING PACKAGE	01.04	C.B. - L.V. Plug (other wire-colors can be used by local customization)	definid di electrical komponen		
31	AMT150000-52	WIRING PACKAGE	01.04	C.B. - L.V. Plug (other wire-colors can be used by local customization)	definid di electrical komponen		
32	DRCN04331-01	REAR UNIT	01.05	Rear cubicle Simplex (for Duplex Back to Back, see §91.09)	Change to AINC75055-01	650	12
33	DRCN04331-02	REAR UNIT	01.05	Rear cubicle Simplex (for Duplex Back to Back, see §91.09)	Change to AINC75055-01		
34	AGSC73644-05	CABLE BOX	01.06	Rear cable box (not possible for MARINE)	Change to AIN663386-11	650	12
35	AGSC73644-06	CABLE BOX	01.06	Rear cable box (not possible for MARINE)	Change to AIN663386-11	800	12
36	AGSC73644-07	CABLE BOX	01.06	Rear cable box (not possible for MARINE)	Change to AIN663386-11		
37	AGSC73644-08	CABLE BOX	01.06	Rear cable box (not possible for MARINE)	Change to AIN663386-11		
38	AMT005452-01	CAISSON	01.06	Rear Cable Box	Need Check by pak ferdi		
39	AMT005452-02	CAISSON	01.06	Rear Cable Box	Need Check by pak ferdi		
40	AMT006620-01	CABLE BOX	01.06	Rear cable box (not possible for MARINE)	Change to AIN663386-11		
41	AMT006620-02	CABLE BOX	01.06	Rear cable box (not possible for MARINE)	Change to AIN663386-11		
42	AMT006652-01	SPOUT SUPPORT	01.07	CT-Spout support only for B16 (NOT MARINE)	Tidak pernah digunakan		
43	AMT006652-03	SPOUT SUPPORT	01.07	CT-Spout support only for B16 (NOT MARINE)	Tidak pernah digunakan		
44	DSL001327-02	SPOUT SUPPORT	01.07	CT-Spout support only for B16 (NOT MARINE)	Tidak pernah digunakan		
45	AMT007850-22	PROTECTION	01.12	Complement for IP3X, IP4X	Need Check by pak ferdi		
46	AGSC75107-05	REAR COVER	01.14	Rear cover	Need Check by pak ferdi		
47	EBAE00056-01	REAR COVER	01.14	Rear cover	Change to AGSC75107-04	750	17
48	EBAE1009-02	REAR COVER	01.14	Rear panel	Change to EBAE1009-01		40
49	DRCN04087-01	FLOOR	01.17	Base plate	Change to AINC75079-18	1000	12
50	SEM102186-02	DOOR	01.19	LTRI: compartment door (not possible for MARINE)	Change to AIN102186-01	650	12
51	SEM106186-01	DOOR	01.19	LTRI: compartment door	Change to AIN104370-01	800	24
52	SEM106054-19	ACCESS COVER	01.22	Busbar compartment access cover	Change to DRCN04364-01	800	24
53	AMT002731-01	DOOR	01.23	Cable compartment access cover	Change to SEM102054-05	650RB	12
54	AMT002731-05	DOOR	01.23	Cable compartment access cover	Change to AINC73819-99	1000CH	24
55	AMT007850-23	ACCESS COVER	01.23	Cable compartment access cover	Change to AIH102054-59 (Checked by pak ferdi)		

Figure 6.10. Result of UG Number PIX (Continue)

	A	B	C	D	E	F	G
	UG NUMBER	DESC FROM STR	Chapt	Description on Choice Grid	Description	Width	PX
1	AMT007850-24	ACCESS COVER	01.23	Cable compartment access cover	Change to AIH102054-59 (Checked by pak ferdi)		
57	DRCN03820-01	ACCESS COVER	01.23	Cable compartment access cover	Change to AIH102054-59 (Checked by pak ferdi)	750	17
58	DRCN03820-04	ACCESS COVER	01.23	Cable compartment access cover	Change to AIH102054-59 (Checked by pak ferdi)		
59	DRCN03820-07	ACCESS COVER	01.23	Cable compartment access cover	Change to AIH102054-59 (Checked by pak ferdi)		
60	DRCN03820-14	ACCESS COVER	01.23	Cable compartment access cover	Change to AIH102054-59 (Checked by pak ferdi)		
61	DRCN03820-15	ACCESS COVER	01.23	Cable compartment access cover	Change to AIH102054-59 (Checked by pak ferdi)		
62	DRCN03820-16	ACCESS COVER	01.23	Cable compartment access cover	Change to AIH102054-59 (Checked by pak ferdi)		
63	DRCN03820-17	ACCESS COVER	01.23	Cable compartment access cover	Change to AIH102054-59 (Checked by pak ferdi)		
64	DRCN03820-18	ACCESS COVER	01.23	Cable compartment access cover	Change to AIH102054-59 (Checked by pak ferdi)		
65	DRCN03820-21	ACCESS COVER	01.23	Cable compartment access cover	Change to AIH102054-59 (Checked by pak ferdi)		
66	DRCN03820-22	ACCESS COVER	01.23	Cable compartment access cover	Change to AIH102054-59 (Checked by pak ferdi)		
67	DRCN03820-23	ACCESS COVER	01.23	Cable compartment access cover	Change to AIH102054-59 (Checked by pak ferdi)		
68	DRCN03820-24	ACCESS COVER	01.23	Cable compartment access cover	Change to AIH102054-59 (Checked by pak ferdi)		
69	DRCN03820-25	ACCESS COVER	01.23	Cable compartment access cover	Change to AIH102054-59 (Checked by pak ferdi)		
70	DRCN03820-31	ACCESS COVER	01.23	Cable compartment access cover	Change to AIH102054-59 (Checked by pak ferdi)		
71	DRCN03820-32	ACCESS COVER	01.23	Cable compartment access cover	Change to AIH102054-59 (Checked by pak ferdi)		
72	DRCN04257-01	ACCESS COVER	01.23	Cable compartment access cover	Change to AIH102054-59 (Checked by pak ferdi)		
73	DRCN04257-02	ACCESS COVER	01.23	Cable compartment access cover	Change to AIH102054-59 (Checked by pak ferdi)		
74	DRCN04257-03	ACCESS COVER	01.23	Cable compartment access cover	Change to AIH102054-59 (Checked by pak ferdi)		
75	DRCN04257-04	ACCESS COVER	01.23	Cable compartment access cover	Change to AIH102054-59 (Checked by pak ferdi)		
76	DRCN04257-07	ACCESS COVER	01.23	Cable compartment access cover	Change to AIH102054-59 (Checked by pak ferdi)		
77	DRCN04257-08	ACCESS COVER	01.23	Cable compartment access cover	Change to AIH102054-59 (Checked by pak ferdi)		
78	DRCN04257-09	ACCESS COVER	01.23	Cable compartment access cover	Change to AIH102054-59 (Checked by pak ferdi)		
79	DRCN04257-10	ACCESS COVER	01.23	Cable compartment access cover	Change to AIH102054-59 (Checked by pak ferdi)		
80	DRCN04257-16	ACCESS COVER	01.23	Cable compartment access cover	Change to AIH102054-59 (Checked by pak ferdi)		
81	DRCN04257-17	ACCESS COVER	01.23	Cable compartment access cover	Change to AIH102054-59 (Checked by pak ferdi)		
82	DRCN04257-18	ACCESS COVER	01.23	Cable compartment access cover	Change to AIH102054-59 (Checked by pak ferdi)		

Figure 6.10. Result of UG Number PIX (Continue)

	A	B	C	D	E	F	G
	UG NUMBER	DESC FROM STR	Chapt	Description on Choice Grid	Description	Width	PX
83	DRCN04257-19	ACCESS COVER	01.23	Cable compartment access cover	Change to AIH102054-59 (Checked by pak ferdi)		
84	DRCN04257-20	ACCESS COVER	01.23	Cable compartment access cover	Change to AIH102054-59 (Checked by pak ferdi)		
85	DRCN04257-21	ACCESS COVER	01.23	Cable compartment access cover	Change to AIH102054-59 (Checked by pak ferdi)		
86	EBAE1004-02	SEALING END	01.25	OPTION key-Lock on left side of cable compartment access cover	Need Check by pak ferdi		
87	AMT005455-01	UNIT EARTH BAR	01.27	Cable's Earth bar for rear box B17	Need Check by pak ferdi		
88	AMT005455-02	UNIT EARTH BAR	01.27	Cable's Earth bar for rear box B17	Need Check by pak ferdi		
89	AMT004209-01	INSULATING PLATE	01.28	LTRI : Insulated screens fixed on the sideframes	Need Check by pak ferdi		
91	AMT007850-03	FRAME	01.29	CRADLE C02 : main unit --- Side plate only	Tidak pernah digunakan		
92	AMT007850-04	FRAME	01.29	CRADLE C02 : main unit --- Side plate only	Tidak pernah digunakan		
93	AMT007850-05	FRAME	01.29	CRADLE C02 : main unit --- Side plate only	Tidak pernah digunakan		
94	AMT007850-06	FRAME	01.29	CRADLE C02 : main unit --- Side plate only	Tidak pernah digunakan		
95	AMT007850-07	FRAME	01.29	CRADLE C02 : main unit --- Side plate only	Tidak pernah digunakan		
96	AMT007850-08	FRAME	01.29	CRADLE C02 : main unit --- Side plate only	Tidak pernah digunakan		
97	AMT007850-09	FRAME	01.29	CRADLE C02 : main unit --- Side plate only	Tidak pernah digunakan		
98	AMT007850-10	FRAME	01.29	CRADLE C02 : main unit --- Side plate only	Tidak pernah digunakan		
99	AMT007850-11	FRAME	01.29	CRADLE C02 : main unit --- Side plate only	Tidak pernah digunakan		
100	AMT007850-12	FRAME	01.29	CRADLE C02 : main unit --- Side plate only	Tidak pernah digunakan		
101	AMT007850-13	FRAME	01.29	CRADLE C02 : main unit --- Side plate only	Tidak pernah digunakan		
102	AMT007850-27	FRAME	01.29	CRADLE C02 : main unit --- Side plate only	Tidak pernah digunakan		
103	AMT007850-35	FRAME	01.29	CRADLE C02 : main unit --- Side plate only	Tidak pernah digunakan		
104	AMT007850-38	FRAME	01.29	CRADLE C02 : main unit --- Side plate only	Tidak pernah digunakan		
105	AMT009322-00	SHUTTER	01.29	CRADLE C02 : main unit --- Side plate only	Tidak pernah digunakan		
106	AMT009381-01	LIFTING BRACKET	01.29	CRADLE C02 : main unit --- Side plate only	Tidak pernah digunakan		
107	AMT008010-01	CRIMPED SUPPORT	01.30	CRADLE : complement of main unit if ES (transport)	Tidak pernah digunakan		
108	AMT008010-02	CRIMPED SUPPORT	01.30	CRADLE : complement of main unit if ES (transport)	Tidak pernah digunakan		
109	AMT008010-03	CRIMPED SUPPORT	01.30	CRADLE : complement of main unit if ES (transport)	Tidak pernah digunakan		
110	AMT008010-04	CRIMPED SUPPORT	01.30	CRADLE : complement of main unit if ES (transport)	Tidak pernah digunakan		
111	AMT004375-01	FLOOR	02.01	Rail base plate	Change to AMT003091-01	800	12
112	AMT004153-03	GND	02.02	Airventilation for switch gear compartment	Need Check by pak ferdi		
113	AGSC73760-01	WIRING KIT	02.03	MP signalling	Change to AIH150001-15 (Checked by Pak Ferdi)		
114	EBAE1076-02	MP	02.03	MP signalling	Change to AIH150001-15 (Checked by Pak Ferdi)		

Figure 6.10. Result of UG Number PIX (Continue)

A	B	C	D	E	F	G	H
UG NUMBER	DESC FROM STR	Chart	Description on Choice Grid	Description	Width	PIX	
115	EBAE1076-03	02.03	Copper connections in cable compartment	Need Check by pak ferdi			
116	DRCN03850-02	02.050	Sensor to forbid to plug-in or Plug-out moving part with lock	Tidak pernah digunakan			
117	AGSC73532-03	02.06	Spout support plate	Change to AIHT000231-04	1000	12	
118	AMT004378-02	02.06	Spout support plate	Change to AIHT000231-02	800	12	
119	AMT007850-73	02.06	Spout support plate	Need Check by pak ferdi			
120	AMT007850-82	02.06	Spout support plate	Need Check by pak ferdi			
121	DSL000741-01	02.06	Spout support plate	Change to AIHT000231-01	650	12	
122	DSL000741-02	02.06	Spout support plate	Change to AIHT000231-02			
123	DSL000984-01	02.06	Spout support plate	Change to AIHT000231-01			
124	DSL000984-02	02.06	Spout support plate	Change to AIHT000231-02	850	12	1600/2000 A
125	DSL000984-03	02.06	Spout support plate	Change to AIHT000231-04	1000	12	2500/3150 A
126	AMT005227-01	02.07	Covers on HVX arms in B16	Tidak pernah digunakan			
127	AMT000232-06	02.08	Shutters	Change to AIHT000402-01 (Checked by pak ferdi)	800	24	630/800/1250 A
128	AMT003091-01	02.08	Shutters	Change to AIHT000402-01 (Checked by pak ferdi)			
129	AMT003091-02	02.08	Shutters	Need Check by pak ferdi			
130	AMT007850-46	02.08	Shutters	Change to AIHT000402-01 (Checked by pak ferdi)			
131	AMT007850-74	02.08	Shutters	Change to AIHT000402-01 (Checked by pak ferdi)			
132	DSL000309-01	02.08	Shutters	Change to AIHT000402-01 (Checked by pak ferdi)			
133	DSL000869-01	02.08	Shutters	Change to AIHT000402-01 (Checked by pak ferdi)			
134	DSL000869-02	02.08	Shutters	Change to AIHT000402-01 (Checked by pak ferdi)			
135	EBAE0012-03	02.08	Shutters	Change to AIHT000402-01 (Checked by pak ferdi)			
136	AMT000232-05	02.09	OPTION Upper Shutter interlocking (preventing manual opening)	Tidak pernah digunakan			
137	AMT000232-05	02.10	OPTION Lower Shutter interlocking (preventing manual opening)	Tidak pernah digunakan			
138	AMT007850-32	02.11	Switchgear compartment door	Need Check by pak ferdi			
139	AMT007850-34	02.11	Switchgear compartment door	Need Check by pak ferdi			
140	AMT007850-37	02.11	Switchgear compartment door	Need Check by pak ferdi			
141	AMT007850-41	02.11	Switchgear compartment door	Need Check by pak ferdi			
142	AMT007850-43	02.11	Switchgear compartment door	Need Check by pak ferdi			
143	AMT007850-54	02.11	Switchgear compartment door	Need Check by pak ferdi			
144	AMT007850-62	02.11	Switchgear compartment door	Need Check by pak ferdi			
145	AMT007850-63	02.11	Switchgear compartment door	Need Check by pak ferdi			
146	AMT007850-66	02.11	Switchgear compartment door	Need Check by pak ferdi			
147	AMT007850-94	02.11	Switchgear compartment door	Need Check by pak ferdi			

Figure 6.10. Result of UG Number PIX (Continue)

A	B	C	D	E	F	G	H
UG NUMBER	DESC FROM STR	Chart	Description on Choice Grid	Description	Width	PIX	
147	AMT007850-95	02.11	Switchgear compartment door	Need Check by pak ferdi			
148	AMT007850-98	02.11	Switchgear compartment door	Need Check by pak ferdi			
149	EBAE0032-31	02.11	Switchgear compartment door	Need Check by pak ferdi			
150	EBAE0032-32	02.11	Switchgear compartment door	Need Check by pak ferdi			
151	EBAE0032-35	02.11	Switchgear compartment door	Need Check by pak ferdi			
152	SEM102187-25	02.11	Switchgear compartment door	Need Check by pak ferdi			
153	SEM102187-26	02.11	Switchgear compartment door	Need Check by pak ferdi			
154	SEM102187-51	02.11	Switchgear compartment door	Need Check by pak ferdi			
155	SEM102187-53	02.11	Switchgear compartment door	Need Check by pak ferdi			
156	DRCN03850-01	02.12	OPTION for HVX with stick operation, door "full button" to forbid manual close	Tidak pernah digunakan			
157	EBAE1088-01	02.14	OPTION forbid access to plug in/out CVX through door (External compartment)	Need Check by pak ferdi			
158	AGSC73296-03	02.15	OPTION mechanical interlocking "opening of door / MP position + plug-in/out"	Change to AIHT001309-01 (Checked by Pak Ferdi)			
159	EBAD0613-01	02.15b	OPTION mechanical interlocking "opening of door / MP position + plug-in/out"	Tidak pernah digunakan			
160	EBAE0015-02	02.15b	OPTION mechanical interlocking "opening of door / MP position + plug-in/out"	Tidak pernah digunakan			
161	EBAE0281-01	02.15b	OPTION mechanical interlocking "opening of door / MP position + plug-in/out"	Tidak pernah digunakan			
162	AMT150015-01	02.16	OPTION Micro-switch + Wiring interlocking opening of door	option wiring motorize CB			
163	AMT150015-11	02.16	OPTION Micro-switch + Wiring interlocking opening of door	option wiring motorize CB			
164	AMT150015-21	02.16	OPTION Micro-switch + Wiring interlocking opening of door	option wiring motorize CB			
165	AMT150015-31	02.16	OPTION Micro-switch + Wiring interlocking opening of door	option wiring motorize CB			
166	EBAE0190-01	02.16	OPTION Micro-switch + Wiring interlocking opening of door	option wiring motorize CB			
167	AMT007850-43	02.17	OPTION Flap C/O for HVX switchgear compartment door	Need Check by pak ferdi			
168	AGSC73054-81	02.19	Support for Signalling and coding	Change to AIHT50001-15			
169	AGSC73054-82	02.19	Support for Signalling and coding	Change to AIHT50001-15			
170	AGSC73054-83	02.19	Support for Signalling and coding	Change to AIHT50001-15			
171	AGSC73760-01	02.19	Support for Signalling and coding	Change to AIHT50001-15			
172	AMT000605-02	02.19	Support for Signalling and coding	Change to AIHT50001-15 (Checked by pak ferdi)			
173	AMT003714-02	02.19	Support for Signalling and coding	Change to AIHT50001-15 (Checked by pak ferdi)			
174	AMT150001-05	02.19	Support for Signalling and coding	Change to AIHT50001-15 (Checked by Pak Ferdi)			
175	AMT150001-35	02.19	Support for Signalling and coding	Change to AIHT50001-15 (Checked by Pak Ferdi)			
176	DRCN03863-01	02.19	Support for Signalling and coding	Change to AIHT50001-15 (Checked by Pak Ferdi)			
177	DRCN03863-02	02.19	Support for Signalling and coding	Change to AIHT50001-15 (Checked by Pak Ferdi)			

Figure 6.10. Result of UG Number PIX (Continue)

A	B	C	D	E	F	G	H
UG NUMBER	DESC FROM STR	Chart	Description on Choice Grid	Description	Width	PIX	
178	EBAE1076-02	02.19	Support for Signalling and coding	Change to AIHT50001-15 (Checked by pak ferdi)			
179	EBAE1076-03	02.19	Support for Signalling and coding	Change to AIHT50001-15 (Checked by pak ferdi)			
180	AMT150013-07	02.24	LTRI : Wiring for motorization LTRI	option wiring motorize LTRI			
181	AMT150013-08	02.24	LTRI : Wiring for motorization LTRI	option wiring motorize LTRI			
182	AMT150013-17	02.24	LTRI : Wiring for motorization LTRI	option wiring motorize LTRI			
183	AMT150013-18	02.24	LTRI : Wiring for motorization LTRI	option wiring motorize LTRI			
184	AMT150013-27	02.24	LTRI : Wiring for motorization LTRI	option wiring motorize LTRI			
185	AMT150013-28	02.24	LTRI : Wiring for motorization LTRI	option wiring motorize LTRI			
186	AMT150013-37	02.24	LTRI : Wiring for motorization LTRI	option wiring motorize LTRI			
187	AMT150013-38	02.24	LTRI : Wiring for motorization LTRI	option wiring motorize LTRI			
188	AMT150013-01	02.27	LTRI : Wiring for auxiliary switch on the switch disconnecter	wiring ltri for auxiliary			
189	AMT150013-02	02.27	LTRI : Wiring for auxiliary switch on the switch disconnecter	wiring ltri for auxiliary			
190	AMT150013-11	02.27	LTRI : Wiring for auxiliary switch on the switch disconnecter	wiring ltri for auxiliary			
191	AMT150013-21	02.27	LTRI : Wiring for auxiliary switch on the switch disconnecter	wiring ltri for auxiliary			
192	AMT150013-22	02.27	LTRI : Wiring for auxiliary switch on the switch disconnecter	wiring ltri for auxiliary			
193	AMT150013-31	02.27	LTRI : Wiring for auxiliary switch on the switch disconnecter	wiring ltri for auxiliary			
194	AMT150013-32	02.27	LTRI : Wiring for auxiliary switch on the switch disconnecter	wiring ltri for auxiliary			
195	AMT150013-03	02.29	LTRI : Wiring for auxiliary switch on the earth switch	ltri wiring producing erting switch			
196	AMT150013-04	02.29	LTRI : Wiring for auxiliary switch on the earth switch	ltri wiring producing erting switch			
197	AMT150013-13	02.29	LTRI : Wiring for auxiliary switch on the earth switch	ltri wiring producing erting switch			
198	AMT150013-23	02.29	LTRI : Wiring for auxiliary switch on the earth switch	ltri wiring producing erting switch			
199	AMT150013-24	02.29	LTRI : Wiring for auxiliary switch on the earth switch	ltri wiring producing erting switch			
200	AMT150013-33	02.29	LTRI : Wiring for auxiliary switch on the earth switch	ltri wiring producing erting switch			
201	AMT150013-34	02.29	LTRI : Wiring for auxiliary switch on the earth switch	ltri wiring producing erting switch			
202	AMT150013-06	02.31	LTRI : wiring for MSKM (signal fuse has tripped only UH-KS-A)	ltri wiring nskm			
203	AMT150013-26	02.31	LTRI : wiring for MSKM (signal fuse has tripped only UH-KS-A)	ltri wiring nskm			

Figure 6.10. Result of UG Number PIX (Continue)

	A	B	C	D	E	F	G
	UG NUMBER	DESC FROM STR	Chapt	Description on Choice Grid	Description	Width	PIX
204	AMT150013-36	WIRING PACKAGE	02.31	LTRI : wiring for MSKM (signal fuse has tripped only UH-KS-A)	Irti wiring nskm		
205	AMT150013-05	WIRING PACKAGE	02.34	LTRI : Wiring for Shunt trip only for UH-KS-A	Irti wiring for shunttrip		
206	AMT150013-25	WIRING PACKAGE	02.34	LTRI : Wiring for Shunt trip only for UH-KS-A	Irti wiring for shunttrip		
207	AMT150013-35	WIRING PACKAGE	02.34	LTRI : Wiring for Shunt trip only for UH-KS-A	Irti wiring for shunttrip		
208	AMT007850-75	INDICATION	02.36	LTRI: open/close Indicator mechanism for the LTRI power part	Need Check by pak ferdi		
209	AMT007850-94	INDICATION	02.38	LTRI: ES open/close Indicator mechanism	Need Check by pak ferdi		
210	SEM106202-01	PROFILE	02.39	LTRI : Profil for protection plate / Profil pour	Change to DRCN04418-01 (Checked by pak ferdi)		
211	AMT004215-01	INSULATING PLATE	02.40	LTRI: removable insulating plate	Need Check by pak ferdi		
212	AMT004215-02	INSULATING PLATE	02.40	LTRI: removable insulating plate	Need Check by pak ferdi		
213	AMT003350-05	SCREW CONNECTION	02.41	LTRI: OPTION Interlocking protection plate with door	Irti option interlocking protection plat		
214	AMT003350-04	SCREW CONNECTION	02.43	LTRI: OPTION Interlocking shutter from cross bar	Tidak pernah digunakan		
215	DRCN09472-01	#N/A	02.49	Assembly operation of LTRI in cubicle	dak pernah digunakan (assembly operation of Irti in cubical)		
216	AMT007058-90	COVER	02.50	Addition lateral cover inside the CB compartment	nah digunakan (additional lateral cover inside the cb compartment		
217	DRCN03951-01	COVER	02.50	Addition lateral cover inside the CB compartment	nah digunakan (additional lateral cover inside the cb compartment		
218	DRCN03951-02	COVER	02.50	Addition lateral cover inside the CB compartment	nah digunakan (additional lateral cover inside the cb compartment		
219	DRCN03951-10	COVER	02.50	Addition lateral cover inside the CB compartment	nah digunakan (additional lateral cover inside the cb compartment		
220	DRCN03951-11	COVER	02.50	Addition lateral cover inside the CB compartment	nah digunakan (additional lateral cover inside the cb compartment		
221	DRCN03951-12	COVER	02.50	Addition lateral cover inside the CB compartment	nah digunakan (additional lateral cover inside the cb compartment		
222	AGSC72877-03	CABLE	03.01	Copper connections in cable compartment	Need Check by pak ferdi		
223	AGSC72878-03	CABLE	03.01	Copper connections in cable compartment	Need Check by pak ferdi		
224	AGSC72879-03	CABLE	03.01	Copper connections in cable compartment	Need Check by pak ferdi		
225	AGSC74535-13	EARTHING	03.02	Main Earth bar	Need Check by pak ferdi		
226	AMT004054-04	EARTHING	03.02	Earth bar / Barre de terre	Need Check by pak ferdi		
227	AMT004054-05	EARTHING	03.02	Earth bar / Barre de terre	Need Check by pak ferdi		
228	AMT004054-06	EARTHING	03.02	Earth bar / Barre de terre	Need Check by pak ferdi		
229	EBAE0033-02	EARTHING	03.02	Earth bar / Barre de terre	Need Check by pak ferdi		
230	EBAE0033-03	EARTHING	03.02	Earth bar / Barre de terre	Need Check by pak ferdi		

Figure 6.10. Result of UG Number PIX (Continue)

	A	B	C	D	E	F	G
	UG NUMBER	DESC FROM STR	Chapt	Description on Choice Grid	Description	Width	PIX
231	AGSC72877-03	CABLE	03.04	Cable connection from CVX side to HV-cable connection	Change to AGSC72877-01 (Checked by Pak Ferdi)		
232	AGSC72878-03	CABLE	03.04	Cable connection from CVX side to HV-cable connection	Change to AGSC72877-01 (Checked by Pak Ferdi)		
233	AGSC72879-03	CABLE	03.04	Cable connection from CVX side to HV-cable connection	Change to AGSC72877-01 (Checked by Pak Ferdi)		
234	AGSC74091-01	CABLE CONNECTION	03.04	Cable connection	Change to AGSC75159-13 (Checked by Pak Ferdi)		
235	AGSC74091-02	CABLE CONNECTION	03.04	Cable connection	Change to AGSC75159-13 (Checked by Pak Ferdi)		
236	AGSC74091-03	CABLE CONNECTION	03.04	Cable connection	Change to AGSC75159-13 (Checked by Pak Ferdi)		
237	AGSC74091-04	CABLE CONNECTION	03.04	Cable connection	Change to AGSC75159-13 (Checked by Pak Ferdi)		
238	AGSC74091-05	CABLE CONNECTION	03.04	Cable connection	Change to AGSC75159-13 (Checked by Pak Ferdi)		
239	AGSC74091-06	CABLE CONNECTION	03.04	Cable connection	Change to AGSC75159-13 (Checked by Pak Ferdi)		
240	AGSC74091-07	CABLE CONNECTION	03.04	Cable connection	Change to AGSC75159-13 (Checked by Pak Ferdi)		
241	AGSC74091-08	CABLE CONNECTION	03.04	Cable connection	Change to AGSC75159-13 (Checked by Pak Ferdi)		
242	AGSC74307-01	CABLE CONNECTION	03.04	Cable connection	Change to AGSC75159-13 (Checked by Pak Ferdi)		
243	AGSC74307-02	CABLE CONNECTION	03.04	Cable connection	Change to AGSC75159-13 (Checked by Pak Ferdi)		
244	AGSC74307-03	CABLE CONNECTION	03.04	Cable connection	Change to AGSC75159-13 (Checked by Pak Ferdi)		
245	AGSC74307-07	CABLE CONNECTION	03.04	Cable connection	Change to AGSC75159-13 (Checked by Pak Ferdi)		
246	AGSC74307-01	CABLE TERMINAL	03.04	Cable connection	Need Check by pak ferdi		
247	AGSC75278-02	RISER 80 MM	03.04	Cable connection	Change to AIN064509-03 (Checked by pak ferdi)		
248	AGSC75278-03	RISER 100 MM	03.04	Cable connection	Change to AMT000242-18 (Checked by pak ferdi)		
249	AGSC75278-19	RISER 100 MM	03.04	Cable connection	Change to AMT000242-18 (Checked by pak ferdi)		
250	AMT000242-01	CABLE CONNECTION	03.04	Cable connection	Change to AINC75091-02 (Checked by pak ferdi)		
251	AMT000242-11	CABLE CONNECTION	03.04	Cable connection	Change to AINC75091-02 (Checked by pak ferdi)		
252	AMT000242-32	CABLE CONNECTION	03.04	Cable connection	Change to AINC75091-02 (Checked by pak ferdi)		
253	AMT005368-01	CONNECTION	03.04	Cable connection	Need Check by pak ferdi		
254	AMT005368-02	CONNECTION	03.04	Cable connection	Need Check by pak ferdi		
255	AMT005458-01	CONNECTION	03.04	Cable connection	Change to AMT000242-31 (Checked by pak ferdi)		
256	AMT006664-01	CABLE CONNECTION	03.04	Cable connection	Change to AINC75091-02 (Checked by pak ferdi)		
257	AMT006664-02	CABLE CONNECTION	03.04	Cable connection	Change to AINC75091-02 (Checked by pak ferdi)		

Figure 6.10. Result of UG Number PIX (Continue)

	A	B	C	D	E	F	G
	UG NUMBER	DESC FROM STR	Chapt	Description on Choice Grid	Description	Width	PIX
258	DSL000863-02	RISER 80 MM	03.04	Cable connection	Change to AIN064509-03 (Checked by pak ferdi)		
259	DSL001423-08	CABLE CONNECTION	03.04	Cable connection	Change to AINC75091-02 (Checked by pak ferdi)		
260	AGSC74486-01	CABLES FLOOR	03.09	Cable support plate for single polar cable (for three polary cable see §03.12	Need Check by pak ferdi		
261	EBAE1099-01	CABLES FLOOR	03.09	Cable support plate (AMT) frame (DBI) without cable clamp	Change to EBAE1029-01 (Checked by pak ferdi)		
262	AMT006642-01	CABLE FLOOR	03.12	Cables support plate for three polar cable without Z-CT	Need Check by pak ferdi		
263	AMT006642-03	CABLE FLOOR	03.12	Cables support plate for three polar cable without Z-CT	Need Check by pak ferdi		
264	AMT200005-01	CABLE FLOOR	03.12	Cables support plate for three polar cable without Z-CT	Need Check by pak ferdi		
265	AMT200007-01	CABLES FLOOR	03.12	Cables support plate for three polar cable without Z-CT	Need Check by pak ferdi		
266	AMT200008-01	CABLE FLOOR	03.12	Cables support plate for three polar cable without Z-CT	Need Check by pak ferdi		
267	AMT200008-02	CABLE FLOOR	03.12	Cables support plate for three polar cable without Z-CT	Need Check by pak ferdi		
268	EBAE0017-21	CABLES FLOOR	03.12	Cables support plate for three polar cable without Z-CT	Need Check by pak ferdi		
269	AGSF62140-02	HEATING UNIT	03.15	Heating resistor in cable compartment + wiring	ah digunakan (using DBK hitter maintain by electrical component list)		
270	AGSF62140-03	HEATING UNIT	03.15	Heating resistor in cable compartment + wiring	ah digunakan (using DBK hitter maintain by electrical component list)		
271	AGSF62140-04	HEATING UNIT	03.15	Heating resistor in cable compartment + wiring	ah digunakan (using DBK hitter maintain by electrical component list)		
272	DRCN04262-01	HEATING UNIT	03.15	Heating resistor in cable compartment + wiring	ah digunakan (using DBK hitter maintain by electrical component list)		
273	DRCN04262-02	HEATING UNIT	03.15	Heating resistor in cable compartment + wiring	ah digunakan (using DBK hitter maintain by electrical component list)		
274	DRCN04262-03	HEATING UNIT	03.15	Heating resistor in cable compartment + wiring	ah digunakan (using DBK hitter maintain by electrical component list)		
275	DRCN04262-04	HEATING UNIT	03.15	Heating resistor in cable compartment + wiring	ah digunakan (using DBK hitter maintain by electrical component list)		
276	AGSC75229-01	SCREEN	03.17	Insulating screen	Need Check by pak ferdi		
277	AGSC75322-05	SHIELD	03.17	Insulating screen	Change to AGSC75322-03 (Checked by pak ferdi)		
278	AGSC75322-08	SHIELD	03.17	Insulating screen	Change to AGSC75322-03 (Checked by pak ferdi)		
279	AGSC75322-08	SCREEN	03.17	Insulating screen	Change to AGSC75322-03 (Checked by pak ferdi)		
280	DRCN03851-01	SCREEN	03.17	Insulating screens (between phase and body (earth) for 1250A and 2000A pa	Change to AGSC75322-03 (Checked by pak ferdi)		
281	AMT007850-21	SUPPORT	03.18	Isolator support (to use in B17 with AMT005456-01 when only 1 CT per phase)	idak pernah digunakan (isolator support untuk rear pix24)		
282	AMT005457-01	CABLES FLOOR	03.19	Cable support plate for rear cables box (B17) - top-entry cables	Need Check by pak ferdi		
283	AMT005457-02	CABLE FLOOR	03.19	Cable support plate for rear cables box (B17) - top-entry cables	Need Check by pak ferdi		
284	AMT005457-04	CABLE FLOOR	03.19	Cable support plate for rear cables box (B17) - top-entry cables	Need Check by pak ferdi		

Figure 6.10. Result of UG Number PIX (Continue)

A	B	C	D	E	F	G	H
UG NUMBER	DESC FROM STR	Chart	Description on Choice Grid	Description	Width	PIX	
285	AMT007850-29	CABLE FLOOR	03.19	Cable support plate for rear cables box (B17) - top-entry cables	Need Check by pak ferdi		
286	AMT006730-01	EARTHING	03.20	Cable's Earth bar for rear box B16	idak pernah digunakan (earthbar for rear box bottom entry)		
287	AMT006730-02	EARTHING	03.20	Cable's Earth bar for rear box B16	idak pernah digunakan (earthbar for rear box bottom entry)		
288	AGSC75234-02	RISER	04.01	Dropper bar	Change to SEM102069-02 (Checked by pak ferdi)	650/800	12 1250 A
289	AGSC75234-03	RISER	04.01	Dropper bar	Change to SEM102069-02 (Checked by pak ferdi)		
290	AGSC75234-06	RISER	04.01	Dropper bar	Change to SEM102069-02 (Checked by pak ferdi)		
291	DSL001039-03	RISER 80 MM	04.01	Dropper bar	Change to SEM102069-02 (Checked by pak ferdi)		
292	SEM102069-09	RISER	04.01	Dropper bar	Change to SEM102069-02 (Checked by pak ferdi)		
293	SEM102069-10	RISER 125 MM	04.01	Dropper bar	Change to SEM102069-02 (Checked by pak ferdi)		
294	SEM102069-11	RISER	04.01	Dropper bar	Change to SEM102069-02 (Checked by pak ferdi)		
295	SEM102069-39	RISER	04.01	Dropper bar	Change to SEM102069-02 (Checked by pak ferdi)		
296	SEM102069-40	RISER	04.01	Dropper bar	Change to SEM102069-02 (Checked by pak ferdi)		
297	SEM102069-41	RISER	04.01	Dropper bar	Change to SEM102069-02 (Checked by pak ferdi)		
298	SEM102069-42	RISER	04.01	Dropper bar	Change to SEM102069-02 (Checked by pak ferdi)		
299	SEM102069-36	RISER 80 MM	04.01	Upper bus-bar riser / Dérivations jeu de barres supérieures	Need Check by pak ferdi		
300	SEM105069-36	RISER 100 MM	04.01	Dropper bar	Change to SEM102069-02 (Checked by pak ferdi)		
301	SEM105069-37	RISER 125 MM	04.01	Upper bus-bar riser / Dérivations jeu de barres supérieures	Need Check by pak ferdi		
302	AGSC73760-05	WIRING KIT	04.04	Solenoid interlock of ES	idak pernah digunakan (option insulation around the note)		
303	AGSC73760-06	WIRING KIT	04.04	Solenoid interlock of ES	idak pernah digunakan (option insulation around the note)		
304	EBAE1100-01	04.04	04.04	Solenoid interlock of ES	idak pernah digunakan (option insulation around the note)		
305	EBAE1100-04	INTERLOCK	04.04	Solenoid interlock of ES	idak pernah digunakan (option insulation around the note)		
306	EBAE1100-05	INTERLOCK	04.04	Solenoid interlock of ES	idak pernah digunakan (option insulation around the note)		
307	EBAE1100-06	Solenoid interlock of ES	04.04	Solenoid interlock of ES	idak pernah digunakan (option insulation around the note)		
308	EBAE1100-07	04.04	04.04	Solenoid interlock of ES	idak pernah digunakan (option insulation around the note)		
309	AGSC73760-03	WIRING KIT	04.05	Electrical indication of ES position	Need Check by pak ferdi		
310	AGSC73760-07	WIRING KIT	04.05	Electrical indication of ES position	Need Check by pak ferdi		
311	EBAE1079-01		04.05	Electrical indication of ES position	Need Check by pak ferdi		

Figure 6.10. Result of UG Number PIX (Continue)

A	B	C	D	E	F	G	H
UG NUMBER	DESC FROM STR	Chart	Description on Choice Grid	Description	Width	PIX	
312	AMT007850-17	BOX ASSEMBLY	04.07	OPTION Fixed VT on busbar (on top): box	Need Check by pak ferdi		
313	SEM102085-01	BOX ASSEMBLY	04.07	OPTION Fixed VT on busbar (on top): box	Need Check by pak ferdi		
314	SEM102085-03	BOX ASSEMBLY	04.07	OPTION Fixed VT on busbar (on top): box	Need Check by pak ferdi		
315	SEM102085-04	BOX ASSEMBLY	04.07	OPTION Fixed VT on busbar (on top): box	Need Check by pak ferdi		
316	SEM102085-05	BOX ASSEMBLY	04.07	OPTION Fixed VT on busbar (on top): box	Need Check by pak ferdi		
317	SEM102085-06	BOX ASSEMBLY	04.07	OPTION Fixed VT on busbar (on top): box	Need Check by pak ferdi		
318	SEM102085-11	BOX ASSEMBLY	04.07	OPTION Fixed VT on busbar (on top): box	Need Check by pak ferdi		
319	SEM102085-12	BOX ASSEMBLY	04.07	OPTION Fixed VT on busbar (on top): box	Need Check by pak ferdi		
320	SEM102086-01	CONNECTION BAR	04.08	OPTION Fixed VT (without fuse) on busbar (on top): Link between VT and bus	Need Check by pak ferdi		
321	SEM102086-02	CONNECTION BAR	04.08	OPTION Fixed VT (without fuse) on busbar (on top): Link between VT and bus	Need Check by pak ferdi		
322	SEM102086-11	CONNECTION BAR	04.08	OPTION Fixed VT (without fuse) on busbar (on top): Link between VT and bus	Need Check by pak ferdi		
323	AMT001163-01	BOX ASSEMBLY	04.10	OPTION ES on busbar (on top): box	idak pernah digunakan (option es on roof)		
324	AMT000157-92	EARTHING SWITCH	04.11	OPTION ES on busbar (on top): Power part	Change to AGSC75011-02 (Checked by pak ferdi)		
325	EBAE0270-01	MECHANISM	04.13	OPTION ES on busbar (on top): Operating part	idak pernah digunakan (option es on roof)		
326	EBAE0270-02	MECHANISM	04.13	OPTION ES on busbar (on top): Operating part	idak pernah digunakan (option es on roof)		
327	EBAE0270-03	MECHANISM	04.13	OPTION ES on busbar (on top): Operating part	idak pernah digunakan (option es on roof)		
328	EBAE0270-04	MECHANISM	04.13	OPTION ES on busbar (on top): Operating part	idak pernah digunakan (option es on roof)		
329	EBAE0273-01	TRANSMISSION SHAFT	04.13	OPTION ES on busbar (on top): Operating part	idak pernah digunakan (option es on roof)		
330	EBAE0273-06	TRANSMISSION SHAFT	04.13	OPTION ES on busbar (on top): Operating part	idak pernah digunakan (option es on roof)		
331	EBAE0276-01	INTERLOCK	04.13	OPTION ES on busbar (on top): Operating part	idak pernah digunakan (option es on roof)		
332	EBAE0276-02	INTERLOCK	04.13	OPTION ES on busbar (on top): Operating part	idak pernah digunakan (option es on roof)		
333	EBAE0276-03	INTERLOCK	04.13	OPTION ES on busbar (on top): Operating part	idak pernah digunakan (option es on roof)		
334	EBAE0276-04	INTERLOCK	04.13	OPTION ES on busbar (on top): Operating part	idak pernah digunakan (option es on roof)		
335	EBAE0276-05	INTERLOCK	04.13	OPTION ES on busbar (on top): Operating part	idak pernah digunakan (option es on roof)		
336	EBAE0276-06	INTERLOCK	04.13	OPTION ES on busbar (on top): Operating part	idak pernah digunakan (option es on roof)		
337	EBAE0276-07	INTERLOCK	04.13	OPTION ES on busbar (on top): Operating part	idak pernah digunakan (option es on roof)		
338	EBAE0276-08	INTERLOCK	04.13	OPTION ES on busbar (on top): Operating part	idak pernah digunakan (option es on roof)		

Figure 6.10. Result of UG Number PIX (Continue)

A	B	C	D	E	F	G	H
UG NUMBER	DESC FROM STR	Chart	Description on Choice Grid	Description	Width	PIX	
339	EBAE0276-09	INTERLOCK	04.13	OPTION ES on busbar (on top): Operating part	idak pernah digunakan (option es on roof)		
340	EBAE0276-10	INTERLOCK	04.13	OPTION ES on busbar (on top): Operating part	idak pernah digunakan (option es on roof)		
341	EBAE0276-11	INTERLOCK	04.13	OPTION ES on busbar (on top): Operating part	idak pernah digunakan (option es on roof)		
342	EBAE0276-12	INTERLOCK	04.13	OPTION ES on busbar (on top): Operating part	idak pernah digunakan (option es on roof)		
343	EBAE0276-13	INTERLOCK	04.13	OPTION ES on busbar (on top): Operating part	idak pernah digunakan (option es on roof)		
344	EBAE0276-14	INTERLOCK	04.13	OPTION ES on busbar (on top): Operating part	idak pernah digunakan (option es on roof)		
345	EBAE0276-15	INTERLOCK	04.13	OPTION ES on busbar (on top): Operating part	idak pernah digunakan (option es on roof)		
346	EBAE0276-16	INTERLOCK	04.13	OPTION ES on busbar (on top): Operating part	idak pernah digunakan (option es on roof)		
347	AMT150009-02	SET OF CONDUCTORS	04.15	OPTION ES on busbar (on top): Wiring for electro-magnetic interlocking E.S. on	idak pernah digunakan (option es on roof)		
348	AMT150009-12	SET OF CONDUCTORS	04.15	OPTION ES on busbar (on top): Wiring for electro-magnetic interlocking E.S. on	idak pernah digunakan (option es on roof)		
349	AMT150009-22	SET OF CONDUCTORS	04.15	OPTION ES on busbar (on top): Wiring for electro-magnetic interlocking E.S. on	idak pernah digunakan (option es on roof)		
350	AMT150009-32	SET OF CONDUCTORS	04.15	OPTION ES on busbar (on top): Wiring for electro-magnetic interlocking E.S. on	idak pernah digunakan (option es on roof)		
351	AMT000401-31	INDICATOR	04.16	OPTION ES on busbar (on top): Earthing signalling	idak pernah digunakan (option es on roof)		
352	AMT007850-50	INDICATOR	04.16	OPTION ES on busbar (on top): Earthing signalling	idak pernah digunakan (option es on roof)		
353	AMT007850-52	INDICATOR	04.16	OPTION ES on busbar (on top): Earthing signalling	idak pernah digunakan (option es on roof)		
354	AMT007850-53	INDICATOR	04.16	OPTION ES on busbar (on top): Earthing signalling	idak pernah digunakan (option es on roof)		
355	AMT150002-08	WIRING PACKAGE	04.17	OPTION ES on busbar (on top): Wiring for E.S. signal system Plug for E.S. on	idak pernah digunakan (option es on roof)		
356	AMT150002-16	WIRING PACKAGE	04.17	OPTION ES on busbar (on top): Wiring for E.S. signal system Plug for E.S. on	idak pernah digunakan (option es on roof)		
357	AMT150002-28	WIRING PACKAGE	04.17	OPTION ES on busbar (on top): Wiring for E.S. signal system Plug for E.S. on	idak pernah digunakan (option es on roof)		
358	AMT150002-36	WIRING PACKAGE	04.17	OPTION ES on busbar (on top): Wiring for E.S. signal system Plug for E.S. on	idak pernah digunakan (option es on roof)		
359	AMT150011-02	WIRING PACKAGE	04.18	OPTION ES on roof: Operating E.S. lever indicator plug for E.S. on bussbar	idak pernah digunakan (option es on roof)		
360	AMT150011-22	WIRING PACKAGE	04.18	OPTION ES on roof: Operating E.S. lever indicator plug for E.S. on bussbar	idak pernah digunakan (option es on roof)		
361	AMT150011-32	WIRING PACKAGE	04.18	OPTION ES on roof: Operating E.S. lever indicator plug for E.S. on bussbar	idak pernah digunakan (option es on roof)		
362	AMT000329-05	MIDDLE FRAME	04.19	OPTION ES on busbar (on top): Front cross bar	Change to AINW04329-02 (Checked by pak ferdi)		
363	AMT000329-16	MIDDLE FRAME	04.19	OPTION ES on busbar (on top): Front cross bar	idak pernah digunakan (option es on roof)		
364	AMT000329-17	MIDDLE FRAME	04.19	OPTION ES on busbar (on top): Front cross bar	idak pernah digunakan (option es on roof)		

Figure 6.10. Result of UG Number PIX (Continue)

	A	B	C	D	E	F	G
1	UG NUMBER	DESC FROM STR	Chapt	Description on Choice Grid	Description	Width	PIX
366	AMT000329-18	MIDDLE FRAME	04.19	OPTION ES on busbar (on top) : Front cross bar	Tidak pernah digunakan (option es on roof)		
367	AMT000368-98	MIDDLE FRAME	04.19	OPTION ES on busbar (on top) : Front cross bar	Tidak pernah digunakan (option es on roof)		
368	AMT150056-07	BOX	04.21	OPTION ES on busbar (on top) : Voltage indicator display	Tidak pernah digunakan (option es on roof)		
369	AMT150056-08	BOX	04.21	OPTION ES on busbar (on top) : Voltage indicator display	Tidak pernah digunakan (option es on roof)		
370	AMT150056-09	BOX	04.21	OPTION ES on busbar (on top) : Voltage indicator display	Tidak pernah digunakan (option es on roof)		
371	AMT150056-10	COVER SHEET	04.21	OPTION ES on busbar (on top) : Voltage indicator display	Tidak pernah digunakan (option es on roof)		
372	AMT150056-11	BOX	04.21	OPTION ES on busbar (on top) : Voltage indicator display	Tidak pernah digunakan (option es on roof)		
373	AMT150056-12	BOX ASSEMBLY	04.21	OPTION ES on busbar (on top) : Voltage indicator display	Tidak pernah digunakan (option es on roof)		
374	AMT150056-13	BOX ASSEMBLY	04.21	OPTION ES on busbar (on top) : Voltage indicator display	Tidak pernah digunakan (option es on roof)		
375	AMT150056-14	BOX ASSEMBLY	04.21	OPTION ES on busbar (on top) : Voltage indicator display	Tidak pernah digunakan (option es on roof)		
376	AMT150056-15	BOX ASSEMBLY	04.21	OPTION ES on busbar (on top) : Voltage indicator display	Tidak pernah digunakan (option es on roof)		
377	AMT150056-16	BOX ASSEMBLY	04.21	OPTION ES on busbar (on top) : Voltage indicator display	Tidak pernah digunakan (option es on roof)		
378	AMT150056-17	BOX ASSEMBLY	04.21	OPTION ES on busbar (on top) : Voltage indicator display	Tidak pernah digunakan (option es on roof)		
379	AMT001170-01	CONNECTION	04.23	OPTION ES on busbar (on top) : Link from main busbar to ES	Tidak pernah digunakan (option es on roof)		
380	AMT001170-03	CONNECTION	04.23	OPTION ES on busbar (on top) : Link from main busbar to ES	Tidak pernah digunakan (option es on roof)		
381	AMT001345-01	CAISSON	04.24	OPTION forced cooling for 4000A system: Box with exhaust fan on top CB con	Need Check by pak ferdi		
382	AMT001345-02	TANK	04.24	OPTION forced cooling for 4000A system: Box with exhaust fan on top CB con	Need Check by pak ferdi		
383	AMT001345-04	TANK	04.24	OPTION forced cooling for 4000A system: Box with exhaust fan on top CB con	Need Check by pak ferdi		
384	EBAD0076-03	LV COVER	04.25	OPTION forced cooling for 4000A system: LV compartment special roof	Tidak pernah digunakan (option es on roof)		
385	EBAD0076-04	LV COVER	04.25	OPTION forced cooling for 4000A system: LV compartment special roof	Tidak pernah digunakan (option es on roof)		
386	SEM101105-04	LV COVER	04.25	OPTION forced cooling for 4000A system: LV compartment special roof	Tidak pernah digunakan (option es on roof)		
387	SEM101105-05	LV COVER	04.25	OPTION forced cooling for 4000A system: LV compartment special roof	Tidak pernah digunakan (option es on roof)		
388	SEM101105-06	LV COVER	04.25	OPTION forced cooling for 4000A system: LV compartment special roof	Tidak pernah digunakan (option es on roof)		
389	AMT002379-01	COVER SHEET	04.26	OPTION forced cooling for 4000A system: Cover for wiring package	Tidak pernah digunakan (option es on roof)		
390	AMT002379-02	COVER SHEET	04.26	OPTION forced cooling for 4000A system: Cover for wiring package	Tidak pernah digunakan (option es on roof)		
391	AMT002379-03	COVER SHEET	04.26	OPTION forced cooling for 4000A system: Cover for wiring package	Tidak pernah digunakan (option es on roof)		
392	AGSC73620-01	WIRING PACKAGE	04.27	OPTION forced cooling for 4000A system: Wiring package	Tidak pernah digunakan (option es on roof)		

Figure 6.10. Result of UG Number PIX (Continue)

	A	B	C	D	E	F	G
1	UG NUMBER	DESC FROM STR	Chapt	Description on Choice Grid	Description	Width	PIX
393	AGSC73620-03	WIRING PACKAGE	04.27	OPTION forced cooling for 4000A system: Wiring package	Tidak pernah digunakan (option es on roof)		
394	AGSC73620-05	WIRING PACKAGE	04.27	OPTION forced cooling for 4000A system: Wiring package	Tidak pernah digunakan (option es on roof)		
395	AGSC73620-06	WIRING PACKAGE	04.27	OPTION forced cooling for 4000A system: Wiring package	Tidak pernah digunakan (option es on roof)		
396	AMT150012-01	WIRING PACKAGE	04.27	OPTION forced cooling for 4000A system: Wiring package	Tidak pernah digunakan (option es on roof)		
397	AMT150012-11	WIRING PACKAGE	04.27	OPTION forced cooling for 4000A system: Wiring package	Tidak pernah digunakan (option es on roof)		
398	AMT150012-21	WIRING PACKAGE	04.27	OPTION forced cooling for 4000A system: Wiring package	Tidak pernah digunakan (option es on roof)		
399	AMT150012-31	WIRING PACKAGE	04.27	OPTION forced cooling for 4000A system: Wiring package	Tidak pernah digunakan (option es on roof)		
400	AMT000157-92	EARTHING SWITCH	05.01	Power part	Change to AGSC75011-02 (Checked by pak ferdi)		
401	DRCD09468-05	05.01.01	05.01.01	Assembly operation of CT's in the cubicle	Tidak pernah digunakan CT		
402	DRCD08168-01	#N/A	05.03	Rating plate for lose E.S	Need Check by pak ferdi		
403	AMT007850-85	EARTHING INTERLOCK	05.05	Operating part	Need Check by pak ferdi		
404	AMT007850-87	EARTHING INTERLOCK	05.05	Operating part	Need Check by pak ferdi		
405	AMT007850-89	EARTHING INTERLOCK	05.05	Operating part	Need Check by pak ferdi		
406	EBAE0270-01	Operating part	05.05	Operating part	Change to AIN000234-08	40/3s	12
407	EBAE0270-02	Operating part	05.05	Operating part	Change to AIN000234-08		
408	EBAE0270-03	Operating part	05.05	Operating part	Change to AIN000234-08		
409	EBAE0270-04	Operating part	05.05	Operating part	Change to AIN000234-08		
410	EBAE0273-01	Operating part	05.05	Operating part	Change to AIN000234-08		
411	EBAE0273-02	TRANSMISSION SHAFT	05.05	Operating part	Change to AIN000234-10		
412	EBAE0273-03	TRANSMISSION SHAFT	05.05	Operating part	Change to AMT000234-12	31.5	24
413	EBAE0276-01		05.05	Operating part	Change to AIN000234-10	40/3s	17
414	EBAE0276-02		05.05	Operating part	Change to AIN000234-08		
415	EBAE0276-03	Operating part	05.05	Operating part	Change to AIN000234-08		
416	EBAE0276-04	Operating part	05.05	Operating part	Change to AIN000234-08		
417	EBAE0276-05		05.05	Operating part	Change to AIN000234-08		
418	EBAE0276-06	Operating part	05.05	Operating part	Change to AIN000234-08		
419	EBAE0276-07	Operating part	05.05	Operating part	Change to AIN000234-08		

Figure 6.10. Result of UG Number PIX (Continue)

	A	B	C	D	E	F	G
1	UG NUMBER	DESC FROM STR	Chapt	Description on Choice Grid	Description	Width	PIX
420	EBAE0276-08	Operating part	05.05	Operating part	Change to AIN000234-08		
421	EBAE0276-09		05.05	Operating part	Change to AIN000234-08		
422	EBAE0276-10		05.05	Operating part	Change to AIN000234-08		
423	EBAE0276-11		05.05	Operating part	Change to AIN000234-08		
424	EBAE0276-12	Operating part	05.05	Operating part	Change to AIN000234-08		
425	EBAE0276-13		05.05	Operating part	Change to AIN000234-08		
426	EBAE0276-14		05.05	Operating part	Change to AIN000234-08		
427	EBAE0276-15		05.05	Operating part	Change to AIN000234-08		
428	EBAE0276-16		05.05	Operating part	Change to AIN000234-08		
429	AGSC73652-73	SET OF CONDUCTORS	05.06	OPTION E.S. motor: Wiring for ES motor	option es motor wiring image electrical by component list		
430	AGSC73652-93	SET OF CONDUCTORS	05.06	OPTION E.S. motor: Wiring for ES motor	option es motor wiring image electrical by component list		
431	AMT150014-01	SET OF CONDUCTORS	05.06	OPTION E.S. motor: Wiring for ES motor	option es motor wiring image electrical by component list		
432	AMT150014-11	SET OF CONDUCTORS	05.06	OPTION E.S. motor: Wiring for ES motor	option es motor wiring image electrical by component list		
433	EBAE1100-01	INTERLOCK	05.07	OPTION: Earthing Switch (into cubicle) electro-magnetic interlocking	Need Check by pak ferdi		
434	EBAE1100-02	INTERLOCK	05.07	OPTION: Earthing Switch (into cubicle) electro-magnetic interlocking	Need Check by pak ferdi		
435	EBAE1100-04	INTERLOCK	05.07	OPTION: Earthing Switch (into cubicle) electro-magnetic interlocking	Need Check by pak ferdi		
436	EBAE1100-06	INTERLOCK	05.07	OPTION: Earthing Switch (into cubicle) electro-magnetic interlocking	Need Check by pak ferdi		
437	EBAE1100-07	#N/A	05.07	OPTION: Earthing Switch (into cubicle) electro-magnetic interlocking	Need Check by pak ferdi		
438	AGSC73598-03	WIRING KIT	05.08	OPTION : wiring for electro-magnetic interlocking E.S. on cable	! : wiring for electro-magnetic interlocking E.S by component list		
439	AGSC73598-05	WIRING KIT	05.08	OPTION : wiring for electro-magnetic interlocking E.S. on cable	! : wiring for electro-magnetic interlocking E.S by component list		
440	AGSC73739-05	WIRING KIT	05.08	OPTION: Cable for electro-magnetic interlocking E.S. on cable + Operating E.S	! : wiring for electro-magnetic interlocking E.S by component list		
441	AGSC73760-05	WIRING KIT	05.08	OPTION: Cable for electro-magnetic interlocking E.S. on cable + Operating E.S	! : wiring for electro-magnetic interlocking E.S by component list		
442	AGSC73760-06	WIRING KIT	05.08	OPTION: Cable for electro-magnetic interlocking E.S. on cable + Operating E.S	! : wiring for electro-magnetic interlocking E.S by component list		
443	AMT150009-01	SET OF CONDUCTORS	05.08	OPTION : wiring for electro-magnetic interlocking E.S. on cable	! : wiring for electro-magnetic interlocking E.S by component list		
444	AMT150009-11	SET OF CONDUCTORS	05.08	OPTION : wiring for electro-magnetic interlocking E.S. on cable	! : wiring for electro-magnetic interlocking E.S by component list		
445	AMT150009-21	SET OF CONDUCTORS	05.08	OPTION : wiring for electro-magnetic interlocking E.S. on cable	! : wiring for electro-magnetic interlocking E.S by component list		
446	AMT150009-31	SET OF CONDUCTORS	05.08	OPTION : wiring for electro-magnetic interlocking E.S. on cable	! : wiring for electro-magnetic interlocking E.S by component list		

Figure 6.10. Result of UG Number PIX (Continue)

A	B	C	D	E	F	G
UG NUMBER	DESC FROM STR	Chart	Description on Check Grid	Description	Width	PX
447	AMT150011-01	WIRING PACKAGE	05.08	OPTION : wiring for electro-magnetic interlocking E.S. on cable	! : wiring for electro-magnetic interlocking E.S by component list	
448	AMT150011-11	WIRING PACKAGE	05.08	OPTION : wiring for electro-magnetic interlocking E.S. on cable	! : wiring for electro-magnetic interlocking E.S by component list	
449	AMT150011-21	WIRING PACKAGE	05.08	OPTION : wiring for electro-magnetic interlocking E.S. on cable	! : wiring for electro-magnetic interlocking E.S by component list	
450	AMT150011-31	WIRING PACKAGE	05.08	OPTION : wiring for electro-magnetic interlocking E.S. on cable	! : wiring for electro-magnetic interlocking E.S by component list	
451	AMT150011-01	OPTION: Wiring with operating E.S. lever indicator plug for E.S. on cable = MAN	05.09	OPTION: Wiring with operating E.S. lever indicator plug for E.S. on cable = MAN	OPTION: Wiring with operating E.S manage by electrical	
452	AMT150011-11	OPTION: Wiring with operating E.S. lever indicator plug for E.S. on cable = MAN	05.09	OPTION: Wiring with operating E.S. lever indicator plug for E.S. on cable = MAN	OPTION: Wiring with operating E.S manage by electrical	
453	AMT150011-21	OPTION: Wiring with operating E.S. lever indicator plug for E.S. on cable = MAN	05.09	OPTION: Wiring with operating E.S. lever indicator plug for E.S. on cable = MAN	OPTION: Wiring with operating E.S manage by electrical	
454	AMT150011-31	OPTION: Wiring with operating E.S. lever indicator plug for E.S. on cable = MAN	05.09	OPTION: Wiring with operating E.S. lever indicator plug for E.S. on cable = MAN	OPTION: Wiring with operating E.S manage by electrical	
455	AMT007850-60	INDICATOR	05.10	Earthing signalling	Need Check by pak ferdi	
456	AMT007850-61	INDICATOR	05.10	Earthing signalling	Need Check by pak ferdi	
457	AMT007850-65	INDICATOR	05.10	Earthing signalling	Need Check by pak ferdi	
458	EBAE1079-01	SIGNALLING	05.10	Earthing signalling	Change to EBAE1079-02	
459	AGSC73052-69	WIRING PACKAGE	05.11	E.S. signal system Plug for E.S. on cable	Change to AMT150002-12 (Checked by Pak Ferdi)	
460	AGSC73052-70	WIRING PACKAGE	05.11	E.S. signal system Plug for E.S. on cable	Change to AMT150002-12 (Checked by Pak Ferdi)	
461	AGSC73052-71	WIRING PACKAGE	05.11	E.S. signal system Plug for E.S. on cable	Change to AMT150002-12 (Checked by Pak Ferdi)	
462	AGSC73052-79	WIRING PACKAGE	05.11	E.S. signal system Plug for E.S. on cable	Change to AMT150002-12 (Checked by Pak Ferdi)	
463	AGSC73052-81	WIRING PACKAGE	05.11	E.S. signal system Plug for E.S. on cable	Change to AMT150002-12 (Checked by Pak Ferdi)	
464	AGSC73052-82	WIRING PACKAGE	05.11	E.S. signal system Plug for E.S. on cable	Change to AMT150002-12 (Checked by Pak Ferdi)	
465	AGSC73052-83	WIRING PACKAGE	05.11	E.S. signal system Plug for E.S. on cable	Change to AMT150002-12 (Checked by Pak Ferdi)	
466	AGSC73052-84	WIRING PACKAGE	05.11	E.S. signal system Plug for E.S. on cable	Change to AMT150002-12 (Checked by Pak Ferdi)	
467	AGSC73052-85	WIRING PACKAGE	05.11	E.S. signal system Plug for E.S. on cable	Change to AMT150002-12 (Checked by Pak Ferdi)	
468	AGSC73052-86	WIRING PACKAGE	05.11	E.S. signal system Plug for E.S. on cable	Change to AMT150002-12 (Checked by Pak Ferdi)	
469	AGSC73052-87	WIRING PACKAGE	05.11	E.S. signal system Plug for E.S. on cable	Change to AMT150002-12 (Checked by Pak Ferdi)	
470	AGSC73052-88	WIRING PACKAGE	05.11	E.S. signal system Plug for E.S. on cable	Change to AMT150002-12 (Checked by Pak Ferdi)	
471	AGSC73052-89	WIRING PACKAGE	05.11	E.S. signal system Plug for E.S. on cable	Change to AMT150002-12 (Checked by Pak Ferdi)	
472	AGSC73052-90	WIRING PACKAGE	05.11	E.S. signal system Plug for E.S. on cable	Change to AMT150002-12 (Checked by Pak Ferdi)	

Figure 6.10. Result of UG Number PIX (Continue)

A	B	C	D	E	F	G
UG NUMBER	DESC FROM STR	Chart	Description on Check Grid	Description	Width	PX
473	AGSC73052-91	WIRING PACKAGE	05.11	E.S. signal system Plug for E.S. on cable	Change to AMT150002-12 (Checked by Pak Ferdi)	
474	AGSC73052-92	WIRING PACKAGE	05.11	E.S. signal system Plug for E.S. on cable	Change to AMT150002-12 (Checked by Pak Ferdi)	
475	AGSC73760-03	WIRING KIT	05.11	E.S. signal system Plug for E.S. on cable	Change to AMT150002-12 (Checked by Pak Ferdi)	
476	AGSC73760-07	WIRING KIT	05.11	E.S. signal system Plug for E.S. on cable	Change to AMT150002-12 (Checked by Pak Ferdi)	
477	AMT150002-02	WIRING PACKAGE	05.11	E.S. signal system Plug for E.S. on cable	Change to AMT150002-12 (Checked by Pak Ferdi)	
478	AMT150002-32	WIRING PACKAGE	05.11	E.S. signal system Plug for E.S. on cable	Change to AMT150002-12 (Checked by Pak Ferdi)	
479	DRCN04083-01	WIRING PACKAGE	05.11	E.S. signal system Plug for E.S. on cable	Change to AMT150002-12 (Checked by Pak Ferdi)	
480	DRCN04083-02	WIRING PACKAGE	05.11	E.S. signal system Plug for E.S. on cable	Change to AMT150002-12 (Checked by Pak Ferdi)	
481	DRCN04083-03	WIRING PACKAGE	05.11	E.S. signal system Plug for E.S. on cable	Change to AMT150002-12 (Checked by Pak Ferdi)	
482	DRCN04083-04	WIRING PACKAGE	05.11	E.S. signal system Plug for E.S. on cable	Change to AMT150002-12 (Checked by Pak Ferdi)	
483	DRCN04083-05	WIRING PACKAGE	05.11	E.S. signal system Plug for E.S. on cable	Change to AMT150002-12 (Checked by Pak Ferdi)	
484	DRCN04083-06	WIRING PACKAGE	05.11	E.S. signal system Plug for E.S. on cable	Change to AMT150002-12 (Checked by Pak Ferdi)	
485	DRCN04083-07	WIRING PACKAGE	05.11	E.S. signal system Plug for E.S. on cable	Change to AMT150002-12 (Checked by Pak Ferdi)	
486	DRCN03850-02	WIRING PACKAGE	05.13	Forbidden to close E.S. if moving part is plugging or intermediate state	Change to AMT1003085-01	
487	AGSC73095-04	MIDDLE FRAME	05.14	Front cross bar	Change to AIIN000329-10 (Checked by Pak Ferdi)	
488	AGSC73095-05	MIDDLE FRAME	05.14	Front cross bar	Change to AIIN000329-10 (Checked by Pak Ferdi)	
489	AGSC73095-06	MIDDLE FRAME	05.14	Front cross bar	Change to AIIN000329-10 (Checked by Pak Ferdi)	
490	AGSC73095-43	MIDDLE FRAME	05.14	Front cross bar	Change to AIIN000329-10 (Checked by Pak Ferdi)	
491	AMT000329-05	MIDDLE FRAME	05.14	Front cross bar	Change to AIIN000329-02 (Checked by pak ferdi)	
492	AMT000329-14	MIDDLE FRAME	05.14	Front cross bar	Change to AIIN000329-05 (Checked by pak ferdi)	
493	AMT000329-16	MIDDLE FRAME	05.14	Front cross bar	Change to AIIN000329-05 (Checked by pak ferdi)	
494	AMT000329-17	MIDDLE FRAME	05.14	Front cross bar	Change to AIIN000329-05 (Checked by pak ferdi)	
495	AMT000329-18	MIDDLE FRAME	05.14	Front cross bar	Change to AIIN000329-05 (Checked by pak ferdi)	
496	AMT007850-39	MIDDLE FRAME	05.14	Front cross bar	Need Check by pak ferdi	
497	AMT007850-44	MIDDLE FRAME	05.14	Front cross bar	Need Check by pak ferdi	
498	AMT007850-77	BUSHING ASSEMBLY	05.14	Front cross bar	Need Check by pak ferdi	
499	AMT007850-83	MIDDLE FRAME	05.14	Front cross bar	Need Check by pak ferdi	
500	AMT007850-93	MIDDLE FRAME	05.14	Front cross bar	Need Check by pak ferdi	
501	AMT007850-99	BUSHING ASSEMBLY	05.14	Front cross bar	Need Check by pak ferdi	
502	AMT009284-02	BUSHING ASSEMBLY	05.14	Front cross bar	Change to AIIN000329-10	650 12
503	AMT009284-03	BUSHING ASSEMBLY	05.14	Front cross bar	Change to AIIN000329-10	750 17
504	AMT009284-04	BUSHING ASSEMBLY	05.14	Front cross bar	Change to AIIN000329-10	800 12
505	AMT009284-05	BUSHING ASSEMBLY	05.14	Front cross bar	Change to AIIN000329-10	1000 12

Figure 6.10. Result of UG Number PIX (Continue)

A	B	C	D	E	F	G
UG NUMBER	DESC FROM STR	Chart	Description on Check Grid	Description	Width	PX
506	AMT009284-05	BUSHING ASSEMBLY	05.14	Front cross bar	Change to AIIN000329-10	
507	EBAE0006-05	BUSHING ASSEMBLY	05.14	Front cross bar	Change to AIIN000329-10	
508	AMT000329-05	MIDDLE FRAME	05.15	Front cross bar for Duplex cubicle	Change to AIIN000329-02 (Checked by pak ferdi)	
509	AMT150005-06	WIRING PACKAGE	05.16	Voltage indicator plug for E.S. on cable	Change to DRCH04332-02	vpis 24
510	AMT150005-07	WIRING PACKAGE	05.16	Voltage indicator plug for E.S. on cable	Change to DRCH04332-02	vds 24
511	AMT150005-16	WIRING PACKAGE	05.16	Voltage indicator plug for E.S. on cable	Change to DRCH04332-02	
512	AGSY80152-01	OPTION: Voltage indicator : wiring , SDT + display (installed on LV-compartment)	05.17	OPTION: Voltage indicator : wiring , SDT + display (installed on LV-compartment)	Change to AIIN075322-99 (Checked by pak ferdi)	
513	AMT150056-07	Voltage indicator display	05.17	Voltage indicator display	Tidak pernah digunakan (option support for arrester)	
514	AMT150056-08	Voltage indicator display	05.17	Voltage indicator display	Change to AIIN04454-22	3.6kv 24
515	AMT150056-09	Voltage indicator display	05.17	Voltage indicator display	Change to AIIN04454-24	10kv 24
516	AMT150056-10	Voltage indicator display	05.17	Voltage indicator display	Change to AIIN04454-24	18kv 24
517	AMT150056-11	Voltage indicator display	05.17	Voltage indicator display	Need Check by pak ferdi	
518	AMT150056-12	Voltage indicator display	05.17	Voltage indicator display	Change to AIIN04454-25	22kv 24
519	AMT150056-13	Voltage indicator display	05.17	Voltage indicator display	Change to AIIN04454-23	5kv 24
520	AMT150056-14	Voltage indicator display	05.17	Voltage indicator display	Change to AIIN04454-23	7.2 24
521	AMT150056-15	Voltage indicator display	05.17	Voltage indicator display	Change to AIIN04454-25	
522	AMT150056-16	Voltage indicator display	05.17	Voltage indicator display	Change to AIIN04454-23	
523	AMT150056-17	Voltage indicator display	05.17	Voltage indicator display	Change to AIIN04454-25	
524	AMT150056-22	BOX ASSEMBLY	05.17	Voltage indicator display	Change to AIIN04454-22	
525	AMT150056-23	BOX ASSEMBLY	05.17	Voltage indicator display	Change to AIIN04454-23	
526	AMT150056-24	BOX ASSEMBLY	05.17	Voltage indicator display	Change to AIIN04454-25	
527	AMT150056-25	BOX ASSEMBLY	05.17	Voltage indicator display	Change to AIIN04454-22	
528	AMT150056-26	BOX ASSEMBLY	05.17	Voltage indicator display	Change to AIIN04454-23	
529	AMT150056-27	BOX ASSEMBLY	05.17	Voltage indicator display	Change to AIIN04454-25	
530	AMT200059-03	EARTHING	05.19	OPTION: copper link between ES and the main earth "only on customer request" (not required by IEC standard)	ernah digunakan (OPTION: copper link between ES to main earth)	
531	AMT200059-04	EARTHING	05.19	OPTION: copper link between ES and the main earth "only on customer request" (not required by IEC standard)	ernah digunakan (OPTION: copper link between ES to main earth)	
532	AMT200059-05	EARTHING	05.19	OPTION: copper link between ES and the main earth "only on customer request" (not required by IEC standard)	ernah digunakan (OPTION: copper link between ES to main earth)	
533	AMT008050-01	STARTSET	05.20	CRADLE : complement for ES assembly (operating part, power part, indicator)	Tidak pernah digunakan untuk es assembly	

Figure 6.10. Result of UG Number PIX (Continue)

Figure 6.10. Result of UG Number PIX (Continue)

Figure 6.10. Result of UG Number PIX (Continue)

Figure 6.10. Result of UG Number PIX (Continue)

UG NUMBER	DESC FROM STR	Chapt	Description on Choice Grid	Description	Width	PX
630	AGSC73076-64	07.11	OPTIONI Withdrawable VT: Wiring of withdrawable VT'sinto cable compartme	check local design		
631	AGSC73076-65	07.11	OPTIONI Withdrawable VT: Wiring of withdrawable VT'sinto cable compartme	check local design		
632	AGSC73076-66	07.11	OPTIONI Withdrawable VT: Wiring of withdrawable VT'sinto cable compartme	check local design		
633	AMT150006-21	07.11	OPTIONI Withdrawable VT: Wiring of withdrawable VT'sinto cable compartme	check local design		
634	AMT150006-22	07.11	OPTIONI Withdrawable VT: Wiring of withdrawable VT'sinto cable compartme	check local design		
635	AMT150006-23	07.11	OPTIONI Withdrawable VT: Wiring of withdrawable VT'sinto cable compartme	check local design		
636	AMT150006-24	07.11	OPTIONI Withdrawable VT: Wiring of withdrawable VT'sinto cable compartme	check local design		
637	AMT150006-51	07.11	OPTIONI Withdrawable VT: Wiring of withdrawable VT'sinto cable compartme	check local design		
638	AMT150006-52	07.11	OPTIONI Withdrawable VT: Wiring of withdrawable VT'sinto cable compartme	check local design		
639	AMT150006-53	07.11	OPTIONI Withdrawable VT: Wiring of withdrawable VT'sinto cable compartme	check local design		
640	DRCN03872-01	07.11	OPTIONI Withdrawable VT: Wiring of withdrawable VT'sinto cable compartme	check local design		
641	DRCN03872-02	07.11	OPTIONI Withdrawable VT: Wiring of withdrawable VT'sinto cable compartme	check local design		
642	AMT150006-04	07.13	OPTIONII Tertiary resistor wiring for: MTX or fix VT in cable compartment or w	option resistor wiring maintain by electrical		
643	AMT150008-24	07.13	OPTIONII Tertiary resistor wiring for: MTX or fix VT in cable compartment or w	option resistor wiring maintain by electrical		
644	AGSC73955-01	07.14	Fuse	fuse maintain by electrical		
645	EBA0066-14	07.14	Fuse	fuse maintain by electrical		
646	DRCN04969-01	07.16	Assembly operation of VT in cubicle or MTX	pernah digunakan (Assembly operation of VT in cubicle or MTX)		
647	DRCN04969-02	07.16	Assembly operation of VT in cubicle or MTX	pernah digunakan (Assembly operation of VT in cubicle or MTX)		
648	DRCN04969-03	07.16	Assembly operation of VT in cubicle or MTX	pernah digunakan (Assembly operation of VT in cubicle or MTX)		
649	DRCN04969-04	07.16	Assembly operation of VT in cubicle or MTX	pernah digunakan (Assembly operation of VT in cubicle or MTX)		
650	DRCN04969-05	07.16	Assembly operation of VT in cubicle or MTX	pernah digunakan (Assembly operation of VT in cubicle or MTX)		
651	DRCN04969-06	07.16	Assembly operation of VT in cubicle or MTX	pernah digunakan (Assembly operation of VT in cubicle or MTX)		
652	DRCN04969-07	07.16	Assembly operation of VT in cubicle or MTX	pernah digunakan (Assembly operation of VT in cubicle or MTX)		
653	DRCN04969-08	07.16	Assembly operation of VT in cubicle or MTX	pernah digunakan (Assembly operation of VT in cubicle or MTX)		
654	DRCN04969-09	07.16	Assembly operation of VT in cubicle or MTX	pernah digunakan (Assembly operation of VT in cubicle or MTX)		
655	AGSY80152-01	08.03	IVDS-System IVIS	Need Check by pak ferdi		
656	AGSY80153-01	08.03	IVDS-System IVIS	Need Check by pak ferdi		
657	DRCN04970-01	08.05	Assembly operation of surge arrester	Tidak pernah digunakan (option support for arrester)		
658	DRCN04970-02	08.05	Assembly operation of surge arrester	Tidak pernah digunakan (option support for arrester)		
659	DRCN04049-01	09.01	OPTIONI: Front internal fault protection (angular front deflector)	Need Check by pak ferdi		
660	DRCN04049-02	09.01	OPTIONII: Front internal fault protection (angular front deflector)	Need Check by pak ferdi		
661	AMT007850-28	09.02	Rear internal fault protection	Need Check by pak ferdi		
662	AMT007850-44	09.07	Rear internal fault protection	Need Check by pak ferdi		

Figure 6.10. Result of UG Number PIX (Continue)

UG NUMBER	DESC FROM STR	Chapt	Description on Choice Grid	Description	Width	PX
662	AMT007850-55	09.02	Rear internal fault protection	Need Check by pak ferdi		
663	AMT007850-59	09.02	Rear internal fault protection	Need Check by pak ferdi		
664	AMT007850-76	09.02	Rear internal fault protection	Need Check by pak ferdi		
665	EBA0005-04	09.02	Rear internal fault protection	Need Check by pak ferdi		
666	EBA0005-05	09.02	Rear internal fault protection	Need Check by pak ferdi		
667	AGSC7344-01	09.05	Ratings plate , quality labels and AREVA LOGO	Change to AGSC72845-01 (Checked by Pak Ferdi)		
668	AGSC7344-02	09.08	OPTION : L1/L2/L3 stickers (and infor about position of VT and CT labels)	OPTION : L1/L2/L3 stickers maintain by stock		
669	AMT001318-02	10.01	Side internal fault protection	Need Check by pak ferdi		
670	AMT001318-04	10.01	Side internal fault protection	Need Check by pak ferdi		
671	AMT001318-07	10.01	Side internal fault protection	Need Check by pak ferdi		
672	AMT001318-08	10.01	Side internal fault protection	Need Check by pak ferdi		
673	AMT001318-17	10.01	Side internal fault protection	Need Check by pak ferdi		
674	AMT001318-18	10.01	Side internal fault protection	Need Check by pak ferdi		
675	AMT007850-30	10.01	Side internal fault protection	Need Check by pak ferdi		
676	AMT007850-31	10.01	Side internal fault protection	Need Check by pak ferdi		
677	AMT007850-56	10.01	Side internal fault protection	Need Check by pak ferdi		
678	AMT007850-57	10.01	Side internal fault protection	Need Check by pak ferdi		
679	AMT007850-96	10.01	Side internal fault protection	Need Check by pak ferdi		
680	AMT007850-97	10.01	Side internal fault protection	Need Check by pak ferdi		
681	AMT007850-15	10.03	End panel	Need Check by pak ferdi		
682	AMT007850-16	10.03	End panel	Need Check by pak ferdi		
683	AMT007850-18	10.03	End panel	Need Check by pak ferdi		
684	AMT007850-19	10.03	End panel	Need Check by pak ferdi		
685	AMT007850-33	10.03	End panel	Need Check by pak ferdi		
686	AMT007850-67	10.03	End panel	Need Check by pak ferdi		
687	AMT007850-69	10.03	End panel	Need Check by pak ferdi		
688	AMT007850-70	10.03	End panel	Need Check by pak ferdi		
689	AMT007850-71	10.03	End panel	Need Check by pak ferdi		
690	AMT007850-78	10.03	End panel	Need Check by pak ferdi		
691	AMT007850-79	10.03	End panel	Need Check by pak ferdi		
692	AMT007850-80	10.03	End panel	Need Check by pak ferdi		
693	AMT007850-81	10.03	End panel	Need Check by pak ferdi		
694	AMT007850-01	10.03	End panel	Need Check by pak ferdi		

Figure 6.10. Result of UG Number PIX (Continue)

UG NUMBER	DESC FROM STR	Chapt	Description on Choice Grid	Description	Width	PX
694	AMT007850-82	10.03	End panel	Need Check by pak ferdi		
695	AMT007850-84	10.03	End panel	Need Check by pak ferdi		
696	AMT007850-06	10.03	End panel	Need Check by pak ferdi		
697	AMT007850-94	10.03	End panel	Need Check by pak ferdi		
698	DRCN04091-01	10.03	End panel	Change to EBA0067-02	1505+2200	17
699	DRCN04091-02	10.03	End panel	Change to EBA0067-04	1505+2300	17
700	DRCN04091-03	10.03	End panel	Change to EBA0067-06	1505+2400	17
701	DRCN04091-04	10.03	End panel	Change to EBA0067-02		
702	DRCN04091-05	10.03	End panel	Change to EBA0067-04		
703	DRCN04091-06	10.03	End panel	Change to EBA0067-06		
704	DRCN04091-07	10.03	End panel	Change to EBA0067-06		
705	DRCN04091-10	10.03	End panel	Change to AINAE0057-02	1605+2200R	17
706	DRCN04091-21	10.03	End panel	Change to EBA0067-02		
707	DRCN04091-27	10.03	End panel	Change to AINAE0057-12	1605+2200L	17
708	DRCN04091-30	10.03	End panel	Change to AINAE0057-02		
709	DRCN04091-31	10.03	End panel	Change to AINAE0057-02		
710	DRCN04091-32	10.03	End panel	Change to DRCN04091-12	1605+2400R	17
711	DRCN04280-01	10.03	End panel	Need Check by pak ferdi		
712	DRCN04280-02	10.03	End panel	Change to DRCN04091-09	1605+2400L	17
713	DRCN04280-03	10.03	End panel	Change to AIN106953-07	1605+2530L	24
714	DRCN04280-04	10.03	End panel	Change to SEM106953-06	1605+2530R	24
715	DRCN04280-05	10.03	End panel	Need Check by pak ferdi		
716	DRCN04280-06	10.03	End panel	Change to AIN106953-07	1605+2530R	24
717	DRCN04280-22	10.03	End panel	Need Check by pak ferdi		
718	DRCN04280-23	10.03	End panel	Change to AIN106953-07	1605+2430L	24
719	DRCN04280-25	10.03	End panel	Need Check by pak ferdi		
720	DRCN04280-26	10.03	End panel	Change to AIN106953-07		
721	DRCN04280-28	10.03	End panel	Need Check by pak ferdi		
722	DRCN04280-29	10.03	End panel	Change to DRCN04280-09	1805+2530L	24
723	DRCN04280-31	10.03	End panel	Change to DRCN04280-11	1805+2430R	24
724	DRCN04280-32	10.03	End panel	Change to DRCN04280-12	1805+2530R	24
725	DRCN04295-01	10.03	End panel	Change to SEM102053-06	1405+2130L	12
726	DRCN04295-02	10.03	End panel	Change to SEM102053-08	1405+2230L	12

Figure 6.10. Result of UG Number PIX (Continue)

1	A	B	C	D	E	F	G
	UG NUMBER	DESC FROM STR	Chapt	Description on Choice Grid	Description	Width	PX
726	DRCN04295-02	SIDE PANEL	10.03	End panel	Change to SEM102053-06		12
727	DRCN04295-03	SIDE PANEL	10.03	End panel	Change to SEM102053-07	1405-2230L	12
728	DRCN04295-04	SIDE PANEL	10.03	End panel	Change to SEM102053-08		12
729	DRCN04295-05	SIDE PANEL	10.03	End panel	Change to SEM102053-09		12
730	DRCN04295-06	SIDE PANEL	10.03	End panel	Change to SEM102053-10		12
731	DRCN04295-07	SIDE PANEL	10.03	End panel	Change to SEM102053-11	1605-2130L	12
732	DRCN04295-08	SIDE PANEL	10.03	End panel	Change to SEM102053-12		12
733	DRCN04295-09	SIDE PANEL	10.03	End panel	Change to SEM102053-13	1605-2230L	12
734	DRCN04295-10	SIDE PANEL	10.03	End panel	Change to SEM102053-14		12
735	DRCN04295-11	SIDE PANEL	10.03	End panel	Change to SEM102053-15	1605-2130R	12
736	DRCN04295-12	SIDE PANEL	10.03	End panel	Change to SEM102053-16	1605-2230R	12
737	DRCN04295-21	SIDE PANEL	10.03	End panel	Change to SEM102053-17		
738	DRCN04295-24	SIDE PANEL	10.03	End panel	Change to SEM102053-18		
739	DRCN04295-27	SIDE PANEL	10.03	End panel	Change to SEM102053-19		
740	DRCN04295-30	SIDE PANEL	10.03	End panel	Change to SEM102053-20		
741	SEM106053-06	END PANEL	10.03	End panel / Panneau extrémité	Need Check by pak ferdi		
742	SEM106053-08	END PANEL	10.03	End panel / Panneau extrémité	Need Check by pak ferdi		
743	SEM106053-09	END PANEL	10.03	End panel / Panneau extrémité	Need Check by pak ferdi		
744	AMT000223-01	SCREW	10.08	Fastening rear cubicle for Duplex	Tidak pernah digunakan (Fastening rear cubicle for Duplex)		
745	AMT000223-02	DISCONNECTING LEVER	10.11	E.S. lever	Change to AMT000223-10 (Checked by pak ferdi)		
746	AMT000223-04	DISCONNECTING LEVER	10.11	E.S. lever	Change to AMT000223-10 (Checked by pak ferdi)		
747	AMT000223-05	DISCONNECTING LEVER	10.11	E.S. lever	Change to AMT000223-10 (Checked by pak ferdi)		
748	AMT000223-07	DISCONNECTING LEVER	10.11	E.S. lever	Change to AMT000223-10 (Checked by pak ferdi)		
749	AMT000223-08	CRANK	10.11	E.S. lever	Change to AMT000223-10 (Checked by pak ferdi)		
750	EBAE1148-02	TROLLEY	10.16	Transport Trolley	Need Check by pak ferdi	1000	12
751	AMT150384-01	#N/A	10.21	Phases comparator VPIS or VDS	Tidak pernah digunakan (Phases comparator VPIS or VDS)		
752	AMT150384-02	PHASE IDENTIFICATION	10.21	Phases comparator VPIS or VDS	Tidak pernah digunakan (Phases comparator VPIS or VDS)		
753	ST442-010-021	#N/A	10.22	Indicator for VDS syst, type SDT	Tidak pernah digunakan (Indicator for VDS syst, type SDT)		
754	AMT007850-36	PRESSURE RELIEF CHANNEL	10.23.d	OPTION tunnel: Channel for gas exhaust via an Absorber	check local design		
755	AMT007850-40	PRESSURE RELIEF CHANNEL	10.23.d	OPTION tunnel: Channel for gas exhaust via an Absorber	check local design		

Figure 6.10. Result of UG Number PIX (Continue)

1	A	B	C	D	E	F	G
	UG NUMBER	DESC FROM STR	Chapt	Description on Choice Grid	Description	Width	PX
756	AMT007850-42	PRESSURE RELIEF CHANNEL	10.23.d	OPTION tunnel: Channel for gas exhaust via an Absorber	check local design		
757	AMT007850-47	PRESSURE RELIEF CHANNEL	10.23.d	OPTION tunnel: Channel for gas exhaust via an Absorber	check local design		
758	AMT007850-49	PRESSURE RELIEF CHANNEL	10.23.d	OPTION tunnel: Channel for gas exhaust via an Absorber	check local design		
759	AMT007850-66	PRESSURE RELIEF CHANNEL	10.23.d	OPTION tunnel: Channel for gas exhaust via an Absorber	check local design		
760	DRCN04215-01	GAS ABSORBER	10.23.d	OPTION tunnel: Channel for gas exhaust via an Absorber	check local design		
761	DRCN04234-01	GAS ABSORBER	10.23.d	OPTION tunnel: Channel for gas exhaust via an Absorber	check local design		
762	AMT150117-01	SET OF CONDUCTORS	10.27	OPTION : LV cable extension for switchgear	check local design		
763	DRCN04246-01	EQUIPED DEFLECTOR	10.32	Deflector	option lv cable extension for switch gear		
764	DRCN04246-01	LV HOUSING	11.01	L.V. Comp. Structure	Need Check by pak ferdi		
765	AMT007850-20	LV HOUSING	11.01	L.V. Comp. Structure	Need Check by pak ferdi		
766	AMT007850-25	LV HOUSING	11.01	L.V. Comp. Structure	Need Check by pak ferdi		
767	AMT007850-64	LV HOUSING	11.01	L.V. Comp. Structure	Need Check by pak ferdi		
768	EBAE0030-07	LV HOUSING	11.01	L.V. Comp. Structure	Need Check by pak ferdi		
769	AGSC7353-01	WIRING PACKAGE	11.02	64-pin LV plug from HVX/UTX/MTX to LV-compartment	Need Check by pak ferdi		
770	AGSC7353-02	WIRING PACKAGE	11.02	64-pin LV plug from HVX/UTX/MTX to LV-compartment	Need Check by pak ferdi		
771	EBAE1022-04	LV DOOR	11.02	L.V. Comp. Door Equipment	Need Check by pak ferdi		
772	EBAE1022-05	LV DOOR	11.02	L.V. Comp. Door Equipment	Need Check by pak ferdi		
773	EBAE1022-06	LV DOOR	11.02	L.V. Comp. Door Equipment	Need Check by pak ferdi		
774	AMT004420-01	CABLE BOX	11.03	OPTION Front box for LV cable entry	Tidak pernah digunakan (OPTION Front box for LV cable entry)		
775	AMT004420-02	CABLE BOX	11.03	OPTION Front box for LV cable entry	Tidak pernah digunakan (OPTION Front box for LV cable entry)		
776	AMT004420-03	CABLE BOX	11.03	OPTION Front box for LV cable entry	Tidak pernah digunakan (OPTION Front box for LV cable entry)		
777	DRCN09470-02	11.06.01	11.06.01	Assembly operation of Surge arrester	Tidak pernah digunakan (Assembly operation of Surge arrester)		
778	AGSC73344-02	RATING PLATE	11.08	Phase identification	Tidak pernah digunakan (assembly lv box)		
779	AGSC73344-01	RATING PLATE	11.09	Labelling	Need Check by pak ferdi		
780	ACS862140-02	HEATING UNIT	11.10	Heating unit in cable compartment	ganti jadi dbk manage by electrical component list		
781	DRCN04262-01	HEATING UNIT	11.10	Heating unit in cable compartment	ganti jadi dbk manage by electrical component list		
782	DRCN04262-02	HEATING UNIT	11.10	Heating unit in cable compartment	ganti jadi dbk manage by electrical component list		
783	AMT000608-02	STOPPER	12.03	spare parts	Change to AMT150001-15 (Checked by pak ferdi)		

Figure 6.10. Result of UG Number PIX (Continue)

1	A	B	C	D	E	F	G
	UG NUMBER	DESC FROM STR	Chapt	Description on Choice Grid	Description	Width	PX
784	AMT000000-01	#N/A		Tidak ada a	Need Check by pak ferdi		
785	AMT000000-02	#N/A		Tidak ada a	Need Check by pak ferdi		
786	AMT000000-03	#N/A		Tidak ada a	Need Check by pak ferdi		
787	AMT007850-83	PRESSURE RELIEF CHANNEL		Tidak ada di galaxy	Need Check by pak ferdi		
788	AMT007850-88	PRESSURE RELIEF CHANNEL		Tidak ada di galaxy	Need Check by pak ferdi		
789	AMT007850-72	DOOR		Tidak ada di galaxy	Need Check by pak ferdi		
790	AMT007850-82	EARTHING INTERLOCK		Tidak ada di galaxy	Need Check by pak ferdi		
791	AMT150000-01	#N/A		Tidak ada di galaxy	Need Check by pak ferdi		
792	AMT150000-02	#N/A		Tidak ada "	Need Check by pak ferdi		
793	AMT150000-03	#N/A		Tidak ada "	Need Check by pak ferdi		
794	AMT000000-04	#N/A		Tidak ada "	Need Check by pak ferdi		
795	AMT000000-05	ACCESS COVER		Ga ada di choicegrid 13	Need Check by pak ferdi		
796	DRCN03820-01	ACCESS COVER		Ga ada di choicegrid 13	Need Check by pak ferdi		
797	DRCN03870-01	ACCESS COVER		chapter 123 tapi sudah Tidak dipakai di choicegrid 13 16	Need Check by pak ferdi		
798	DRCN03870-02	ACCESS COVER		chapter 123 tapi sudah Tidak dipakai di choicegrid 13 16	Need Check by pak ferdi		
799	DRCN03870-03	ACCESS COVER		chapter 123 tapi sudah Tidak dipakai di choicegrid 13 16	Need Check by pak ferdi		
800	DRCN03870-04	ACCESS COVER		chapter 123 tapi sudah Tidak dipakai di choicegrid 13 16	Need Check by pak ferdi		
801	DRCN03870-05	ACCESS COVER		chapter 123 tapi sudah Tidak dipakai di choicegrid 13 16	Need Check by pak ferdi		
802	DRCN03870-06	ACCESS COVER		chapter 123 tapi sudah Tidak dipakai di choicegrid 13 16	Need Check by pak ferdi		
803	EBAE0100	#N/A		Double	Need Check by pak ferdi		
804	AMT150000-06	#N/A		Double	Need Check by pak ferdi		
805	AMT000000-07	EARTHING		Ga ada di choicegrid 13	Need Check by pak ferdi		
806							
807							
808							
809							
810							
811							
812							
813							
814							

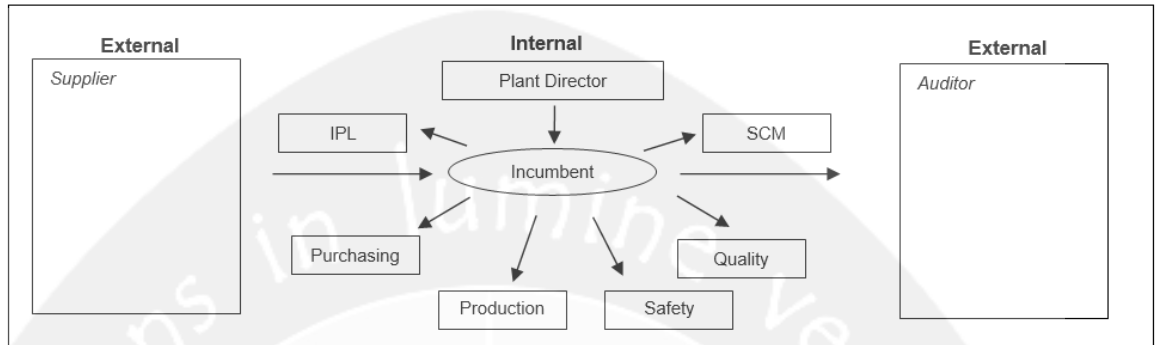
Figure 6.10. Result of UG Number PIX (Continue)

APPENDIX

Appendix 1. Method Department Business Process

NETWORK OF INTERACTION Major interaction parties :

(Internal e.g. colleagues, Sales & Marketing Dept, Unions & etc. External e.g. legal advisor, customers, distributors, Clients & etc)



Appendix 2. Trainee Attendance Record

No.		Nama		BAGIAN		BULAN		SAKIT		IZIN		ALPA		LAMBAT		LAIN ²			
		Ahmad Novian S.P.		Method Department		Januari													
No	Date	Pagi		Siang		Lembur		Masuk		Keluar		Masuk		Keluar		Masuk		Keluar	
		Masuk	Keluar	Masuk	Keluar	Masuk	Keluar	Masuk	Keluar	Masuk	Keluar	Masuk	Keluar	Masuk	Keluar	Masuk	Keluar		
16																			
17																			
18																			
19																			
20																			
21																			
22																			
23																			
24																			
25																			
26																			
27																			
28																			
29																			
30	08.00	17.00																	
31	08.00	17.00																	

Signature: *[Signature]*

No. Nama Ahmad Novian S.P
 BAGIAN Method Department
 BULAN Februari

SAKIT	IZIN	ALPA	LAMBAT	LAIN ²

No	Pagi		Siang		Lembur	
	Masuk	Keluar	Masuk	Keluar	Masuk	Keluar
1	08.30	17.30				
2	07.10	17.00				
3	07.00	17.00				
4						
5						
6	07.00	17.00				
7	07.00	17.00				
8	07.00	17.00				
9	07.00	17.00				
10	07.00	17.00				
11						
12						
13	07.30	17.00				
14	07.30	17.00				
15						

Jmdr.

No. Nama Ahmad Novian S.P
 BAGIAN Method Department
 BULAN Februari

SAKIT	IZIN	ALPA	LAMBAT	LAIN ²

No	Pagi		Siang		Lembur	
	Masuk	Keluar	Masuk	Keluar	Masuk	Keluar
16	07.30	17.00				
17	07.40	17.15				
18						
19						
20	07.25	17.15				
21	07.05	17.30				
22	07.40	17.00				
23	07.05	17.15				
24	07.30	17.00				
25	08.05	17.10				
26						
27	07.30	17.00				
28	07.35	17.05				
29						
30						
31						

Jmdr.

No. Nama Ahmad Novian S.P
 BAGIAN Method Department
 BULAN Marsch

SAKIT	IZIN	ALPA	LAMBAT	LAIN ²

No	Pagi		Siang		Lembur	
	Masuk	Keluar	Masuk	Keluar	Masuk	Keluar
1	07.40	18.45				
2	izin	izin				
3	izin	izin				
4						
5						
6	07.40	17.00				
7	07.30	17.00				
8	07.35	17.00				
9	07.45	17.00				
10	07.45	17.00				
11						
12						
13	07.45	17.00				
14	07.45	17.00				
15	07.45	17.00				

Jmdr.

No..... Nama Amad Kevian S.P
 BAGIAN Method Department
 BULAN March

No	SAKIT	IZIN	ALPA	LAMBAT	LAIN ²	Pagel		Siang		Lembur		Jam
						Masuk	Keluar	Masuk	Keluar	Masuk	Keluar	
16						07.45	17.00					
17						07.45	17.00					
18												
19												
20						07.45	17.00					
21						07.45	17.00					
22						07.45	17.00					
23						07.45	17.00					
24						07.45	17.00					
25												
26												
27						07.45	17.00					
28												
29						07.45	17.00					
30						07.45	17.00					
31						07.45	17.00					

Amad

No..... Nama Amad Kevian S.P
 BAGIAN Method
 BULAN April

No	SAKIT	IZIN	ALPA	LAMBAT	LAIN ²	Pagel		Siang		Lembur		Jam
						Masuk	Keluar	Masuk	Keluar	Masuk	Keluar	
1												
2												
3						07.45	17.00					
4						07.45	17.00					
5						07.45	17.00					
6						07.45	17.00					
7						07.45	17.00					
8												
9												
10						07.30	17.00					
11						07.45	17.00					
12						07.45	17.00					
13						07.45	17.00					
14												
15												

Amad

No..... Nama Amad Kevian S.P
 BAGIAN Method
 BULAN April

No	SAKIT	IZIN	ALPA	LAMBAT	LAIN ²	Pagel		Siang		Lembur		Jam
						Masuk	Keluar	Masuk	Keluar	Masuk	Keluar	
16												
17						07.45	17.00					
18						07.45	17.00					
19						07.45	17.00					
20						07.50	17.00					
21						07.50	17.00					
22												
23												
24												
25						12.45	12.45					
26						07.45	17.00					
27						07.45	17.00					
28						07.55	17.00					
29												
30												
31												

Amad

No..... Nama Almad Novian S.P
 BAGIAN Metoda Departement
 BULAN May

Tgl	Pagel		Siang		Lembur	
	Masuk	Keluar	Masuk	Keluar	Masuk	Keluar
1						
2		Sick				
3		Sick				
4	07.45	17.00				
5	08.00	17.00				
6						
7						
8	07.45	17.00				
9	07.45	17.00				
10	07.45	17.00				
11						
12	08.00	17.00				
13						
14						
15	07.45	17.00				

SAKIT IZIN ALPA LAMBAT LAIN²

Am Bn

No..... Nama Almad Novian S.P
 BAGIAN Metoda Departement
 BULAN May

Tgl	Pagel		Siang		Lembur	
	Masuk	Keluar	Masuk	Keluar	Masuk	Keluar
16	07.45	17.00				
17	07.45	17.00				
18	07.45	17.00				
19	07.45	17.00				
20						
21						
22	07.45	17.00				
23	07.45	17.00				
24	07.45	17.00				
25						
26	08.00	17.00				
27						
28						
29	08.00	17.00				
30	08.00	17.00				
31	08.00	17.00				

SAKIT IZIN ALPA LAMBAT LAIN²

Am Bn

No..... Nama Almad Novian S.P
 BAGIAN Metoda
 BULAN June

Tgl	Pagel		Siang		Lembur	
	Masuk	Keluar	Masuk	Keluar	Masuk	Keluar
1						
2	07.45	17.00				
3						
4						
5	07.50	17.00				
6	08.00	17.00				
7	07.45	17.00				
8	07.45	17.00				
9	07.45	17.00				
10						
11						
12	07.45	17.00				
13	07.45	17.00				
14	Sick	Sick				
15	Sick	Sick				

SAKIT IZIN ALPA LAMBAT LAIN²

Am Bn

No Nama Ahmad Kevins P

BAGIAN Metrol

BULAN June

No	Pagi		Siang		Lembur		Jam
	Masuk	Keluar	Masuk	Keluar	Masuk	Keluar	
16	Sakit	Sakit					
17							
18							
19	07.00	17.00					
20	07.00	17.00					
21	07.00	17.00					
22	07.00	17.00					
23							
24							
25							
26							
27							
28							
29							
30							
31							


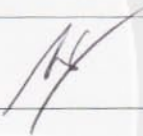
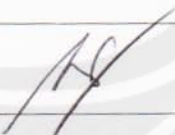
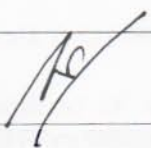
Amirudin

Appendix 3. Working Activities Daily Log



Program Studi Teknik Industri Universitas Atma Jaya Yogyakarta
Lembar Bimbingan Pelaksanaan dan Penyusunan
Laporan Kerja Praktek

Nama Mahasiswa : Ahmad Novian Syah Putra
 NPM : 131407544
 Perusahaan tempat KP : PT. Schneider Electric
 Tanggal pelaksanaan KP : 30 Januari - 01 Juli 2017
 Dosen Pembimbing : The Lin Ai, S.T., M.T., D.Eng.

No.	Tanggal	Agenda	Tanda Tangan Dosen Pembimbing
1.	16/12/2016	Penyerahan surat pembimbingan dan Konsultasi persiapan Kerja Praktek	
2.		Laporan atau konsultasi tugas dari perusahaan	
	1/8/2017	Laporan pertama setelah pelaksanaan Kerja Praktek dan konsultasi penyusunan laporan	
	1/8/2017	Penyerahan draft laporan Kerja Praktek untuk pertama kali	
	6/11/17	Pengesahan laporan Kerja Praktek	

PENILAIAN KERJA PRAKTEK OLEH PEMBIMBING/SUPERVISOR LAPANGAN
KERJA PRAKTEK PROGRAM STUDI TEKNIK INDUSTRI,
UNIVERSITAS ATMA JAYA YOGYAKARTA

Nama Mahasiswa : Ahmad Novian Syah Putra
No. Mahasiswa : 131407544
Perusahaan Tempat Kerja Praktek : PT. Schneider Electric Indonesia
Divisi/Departemen/Area Kerja : Method Department
Waktu Pelaksanaan : 30 January - 01 July 2017


Mohon Bapak/Ibu pembimbing lapangan memberikan penilaian atas prestasi mahasiswa peserta kerja praktek sesuai dengan aspek penilaian di bawah ini. Nilai terendah adalah 1 dan nilai tertinggi adalah 10.

No.	Aspek Penilaian	Nilai (1 - 10)
1.	Kedisiplinan	10
2.	Motivasi kerja	10
3.	Tanggung jawab	10
4.	Kerjasama dengan rekan sekerja	9
5.	Sopan santun dan tata krama	10
6.	Daya tangkap dan pemahaman terhadap tugas yang diberikan	9
7.	Kemampuan melaksanakan dan menyelesaikan tugas	10
8.	Keterampilan dalam menggunakan peralatan kerja	10
9.	Perawatan terhadap peralatan kerja	10
10.	Perhatian terhadap keselamatan kerja	9

Cikarang, 10.7

2017

Pembimbing/Supervisor Lapangan,


(Abdul Aziz Budiman)

Catatan:

- Nilai pada setiap aspek dikategorikan dalam peringkat sangat baik (nilai nominal: 9-10), baik (7-8), cukup (5-6), kurang (3-4), dan sangat kurang (1-2).
- Pembimbing/Supervisor Lapangan dimohon mengisi blanko penilaian ini apabila mahasiswa yang bersangkutan telah menyelesaikan Laporan Kerja Praktek di Perusahaan.
- Mahasiswa yang tidak menyerahkan blanko nilai yang sudah terisi oleh pembimbing lapangan tidak akan menerima nilai akhir Mata Kuliah Kerja Praktek.