拉合尔换流站二次班新员工培养计划
Develop Program for New Staff of Secondary team at Lahore Convert Station

一、班组简介

I. Brief Introduction to Teams

拉合尔换流站二次班负责站内直流控保、交流保护、信息通信、阀冷、低压直流、视频监控设备的消缺组织及异常处理工作。

The secondary team of Lahore converter station is responsible for DC control and protection, AC protection, IT and telecom, valve cooling, low voltage DC, video surveillance equipment elimination organization and abnormal handling.

二、培养计划

II. Develop programmes

为使新员工迅速融入工作，掌握必备的业务技能，在拉站“比、学、赶、超”的氛围下，通过深度参与现场工作，“干中学，学中干”，满足现场生产需要。结合近期工作，为 Muhammad Ubaid Ur Rehman、Abu Bakar Abid Jathol 制定培养计划如下。

In order to make the new employees quickly integrate into the work and master the necessary business skills, in the atmosphere of "compare, learn, rush up, super ", through

the deep participation in the field work ," learn during work, work with study", to meet the needs of production.Develop training plans for Muhammad Ubaid Ur Rehman、Abu Bakar Abid Jathol as follows.

阶段	参与工作/培训	Ubaid	Abu Bakar Abid	学习目标	责任人
第一阶段：基本认知	端子箱、汇控柜红外测温	√		对现场一次设备及二次接线有基本认知	赵桂鑫
	全站时钟对时系统排查	√	√	对全站二次设备有基本认知	刘昊
	CT、PT回路图学习	√	√	对全站测量设备有基本认知	刘昊
	PLC通道设备学习	√		对通道组成有基本认知	刘昊
	二次备品备件交接	√	√	对备品备件有基本认知	刘昊
第二阶段：理论提升	一次设备识图	√	√	掌握现场一次设备组成和位置	吴春军
	调试数据整理		√	对直流系统调试有基本认知	吴春军
	OWS系统培训	√	√	掌握OWS系统的基本功能	赵桂鑫
	低压直流系统培训		√	熟悉低压直流系统的运行方式	赵桂鑫
	阀冷系统培训	√	√	熟悉阀冷系统的运行方式	刘昊
第三阶段：深度参与	交流保护培训	√	√	掌握交流保护的原理	吴春军
	极控系统培训	√	√	掌握极控系统的原理	赵桂鑫
	直流保护系统培训	√	√	掌握直流保护的原理	吴春军
	测量装置培训	√	√	掌握测量装置的接线方式及组成	赵桂鑫
	信息网络VLAN优化	√		掌握全站网络结构及配置	刘昊
	参与消缺工作	√	√	可以参与简单的消缺和异常处理	刘昊

phase	Participation/training	Ubaid Ur Rehman	Bakar Abid Jathol	learning target	person in charge
Stage 1: Basic Cognition	Terminal box and control cabinet	√		Basic knowledge of primary equipment and secondary wiring on site	Liu Hao
	Checking the clock timing system of the whole station	√	√	Basic knowledge of the station's secondary equipment	Liu Hao
	CT、PT loop diagram learning	√	√	Basic knowledge of total station survey equipment	Zhao Guixin
	PLC channel testing	√		Basic knowledge of channel composition	Wu Chunjun
	Second spare parts handover	√	√	Basic knowledge of spare parts	Zhao Guixin
Stage 2: Theory promotion	Primary equipment drawing	√	√	Master site equipment composition and location	Wu Chunjun
	Data collation of Test		√	Basic knowledge of DC system debugging	Liu Hao
	OWS system training	√	√	Master the basic functions of the OWS system	Zhao Guixin
	Training in low voltage DC systems		√	Familiar with the operation mode of low voltage DC system	Zhao Guixin
	Valve cooling system training	√	√	Familiar with the operation of valve cooling system	Wu Chunjun
Phase III: Deep participation	Exchange protection training	√	√	Master the principle of communication protection	Wu Chunjun
	Pol systems training	√	√	Master the principle of pole control system	Liu Hao
	DC Protection System Training	√	√	Master the principle of DC protection	Liu Hao
	Training of measuring devices	√	√	Master the wiring and composition of the measuring device	Liu Hao
	VLAN optimization of information networks	√		Master the network structure and configuration of the whole station	Liu Hao
	Participation in elimination	√	√	Can participate in simple elimination and exception handling	Zhao Guixin

三、培养周期及下一步工作计划

III. Training cycle and next work plan

基本认知阶段计划持续两周，结合调试停电间隙和调试初期开展，于 12 月 20 日前完成；理论提升阶段计划持续两周，结合调试过程和调试总结阶段开展，于 2021 年 1 月 6 日前完成；深度参与阶段，持续 1 个月，结合试运行阶段开展，于 2 月中旬前完成。在完成上述计划的基础上，根据试运行阶段具体工作，对此计划进行更新跟进。

The basic cognitive phase is planned to last two weeks, completed by December 20, combined with commissioning blackout gap and initial commissioning, and completed by January 6,2021. Deep participation phase, lasting 1 month, combined with trial operation phase, completed by mid-February. On the basis of the completion of the above plan, according to the specific work of the trial operation phase, the plan is updated and followed up.