

DISTRIBUTED CONTROL SYSTEM



OVERVIEW

DISTRIBUTED CONTROL SYSTEM (DCS)

INTRODUCTION

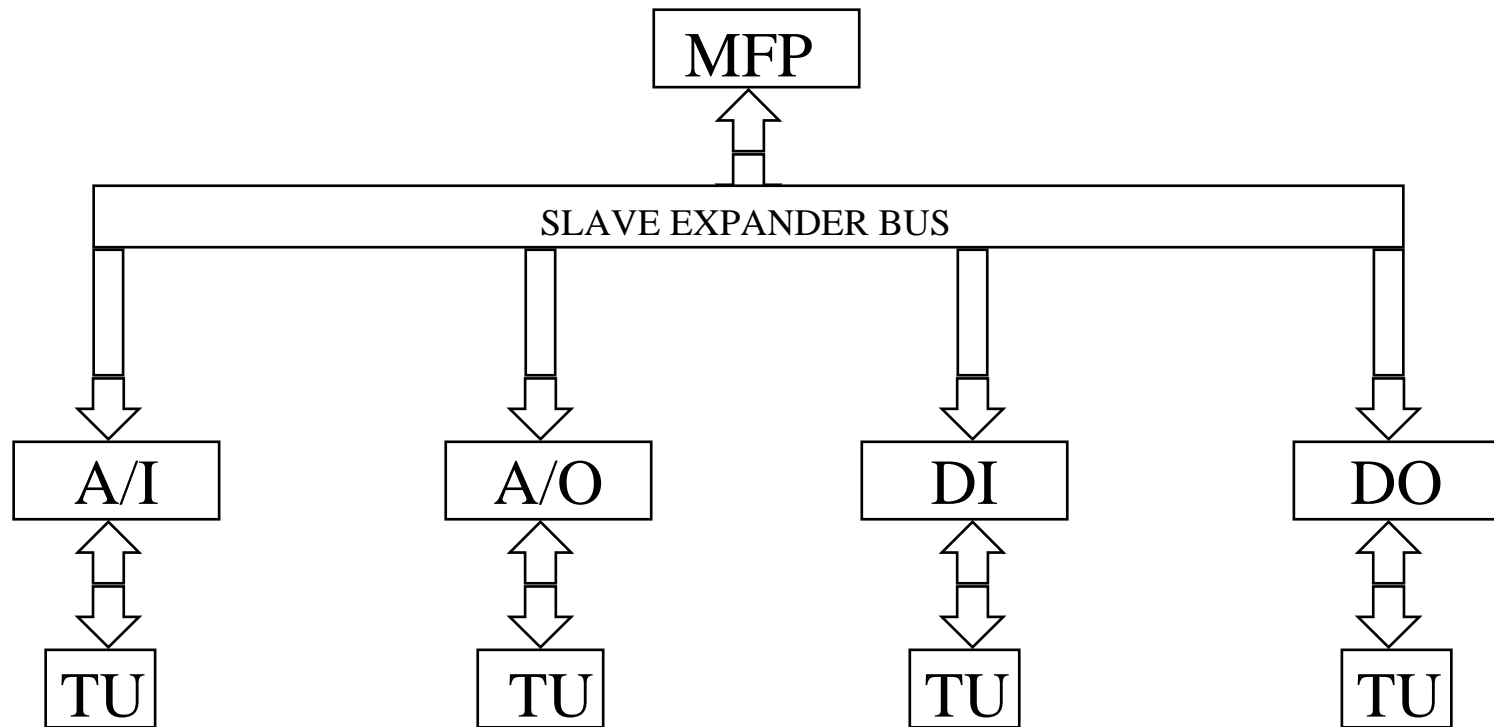
All equipment in DCS are working 24 hours to cover mill running. We have rack room in each area to process the data in that area. All rack room in each area is communicate each and other and we collect all data for all area in Central Control room.

The central control room is the place to control and monitor the mill by DCS operators. DCS operator can control and monitor all signal via consoles. The Signal from DCS operator or the signal from field will sent to rack room.

The rack room is central of Processing data from and to field for each area. The rack room also for collected all DCS modules, Multi Function Processor (MFP), I/O modules, communication modules, power supply module, etc.

DISTRIBUTED CONTROL SYSTEM (DCS)

PROCES CONTROL UNIT (PCU)



UP TO 64 MODULES

DISTRIBUTED CONTROL SYSTEM (DCS)

What are advances of DCS for Industries

Interlocking System (Safety).

To avoid damage of the equipment and injure the people .

Man Power

Reduce man Power of the mill because DCS operator easy to control and monitor their plant.

Data

To collect data of each loop number if sometimes it is needed to analyst to help solve problem.

DISTRIBUTED CONTROL SYSTEM (DCS)

What are the consist of DCS

I. Hardware

Console/Computers

DCS MODULES

Cable

II. SOFTWARE

Process Control View (QNX, Database)

Batch90 Program

Jungle Mux

Harmony

Computer Load system (CLS)

Engineering Work Station (CAD, SODG)

Composer Program

DISTRIBUTED CONTROL SYSTEM (DCS)

HOW TO DCS WORK ?

DISTRIBUTED CONTROL SYSTEM (DCS)

SCOPE OF DISTRIBUTED CONTROL SYSTEM

THE SCOPE OF DCS IN KIANI KERTAS IS AREA UNDER CONTROLLED BY DCS.

THE AREA INCLUDED : WATER INTAKE, WATER TREATMENT, EFFLUENT, LIME KILN, RECAUSTIZING, EVAPORATOR, RECAVERY BOILER, DEMIN PLANT. POWER BOILER, DIGESTER, WASHING, BLEACHING, CHEMICAL PLANT AND PULP MACHINE.

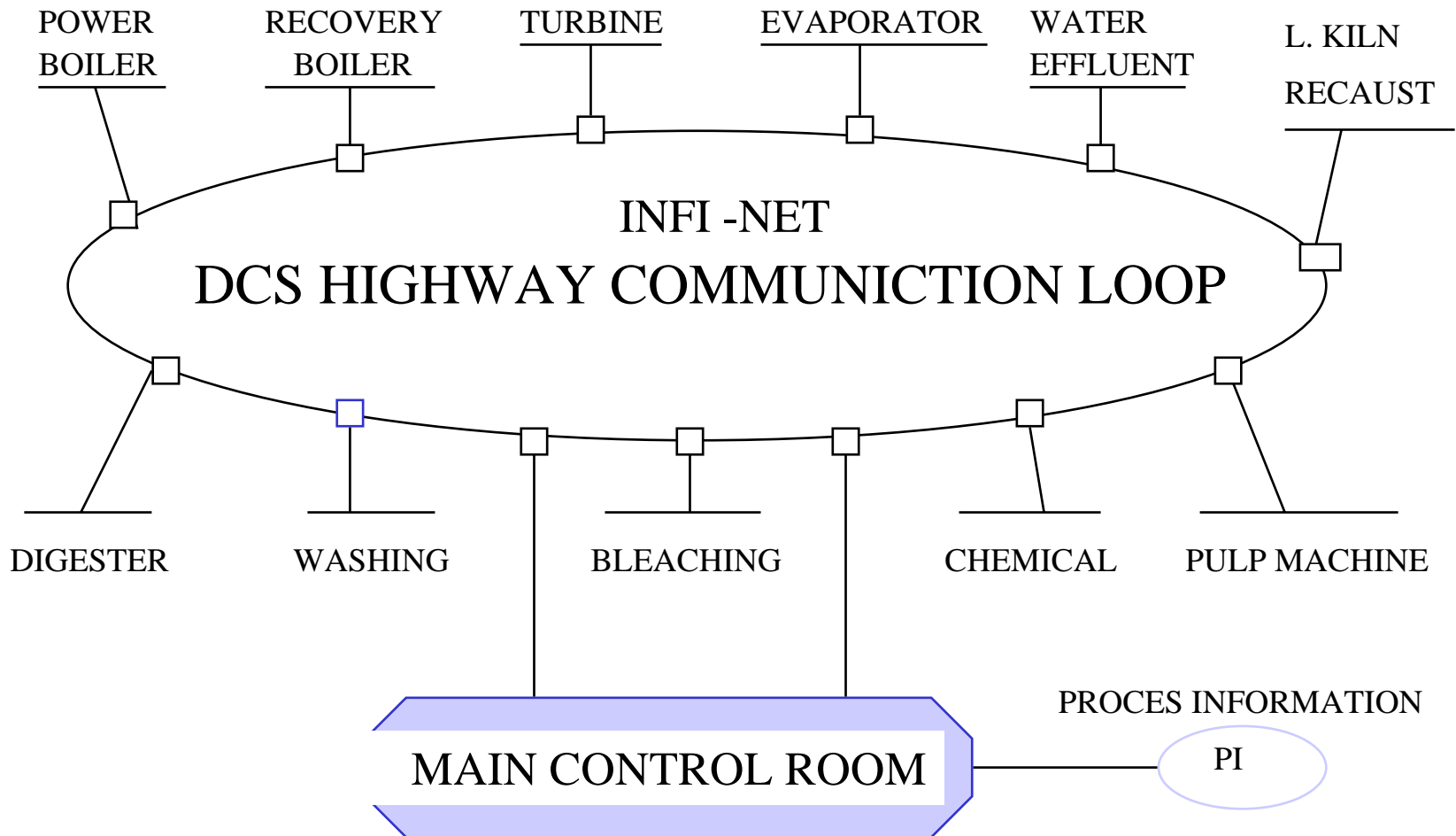
WE HAVE SIMULATOR TO SIMULATE PROCESS FOR EACH PLANT AND ALSO TRAINING FOR NEW OPERATOR.

DCS HAS INTERFACE TO HAVE PROCESS INFORMATION (PI)

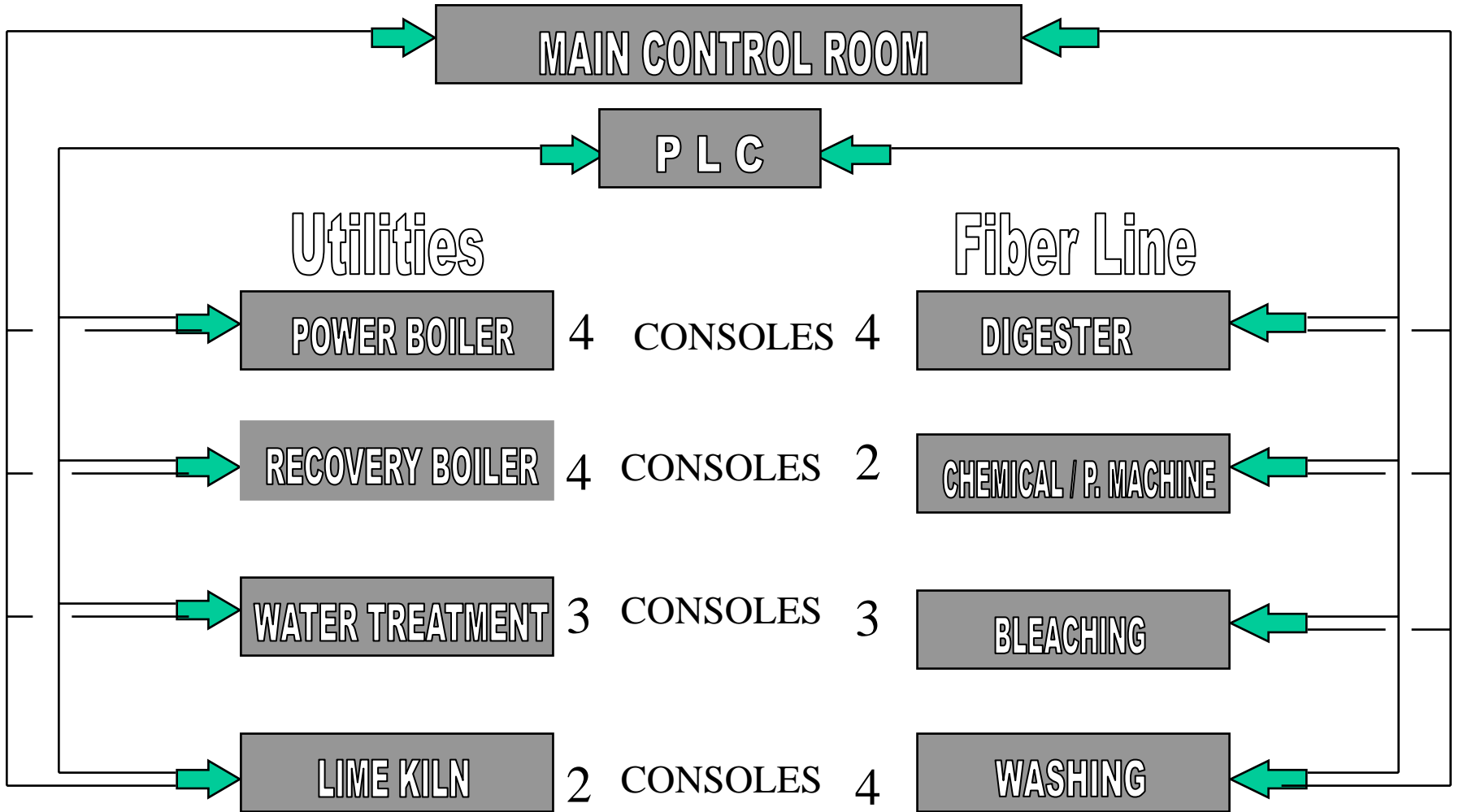
DCS HAS INTERFACE WITH PLC

DISTRIBUTED CONTROL SYSTEM (DCS)

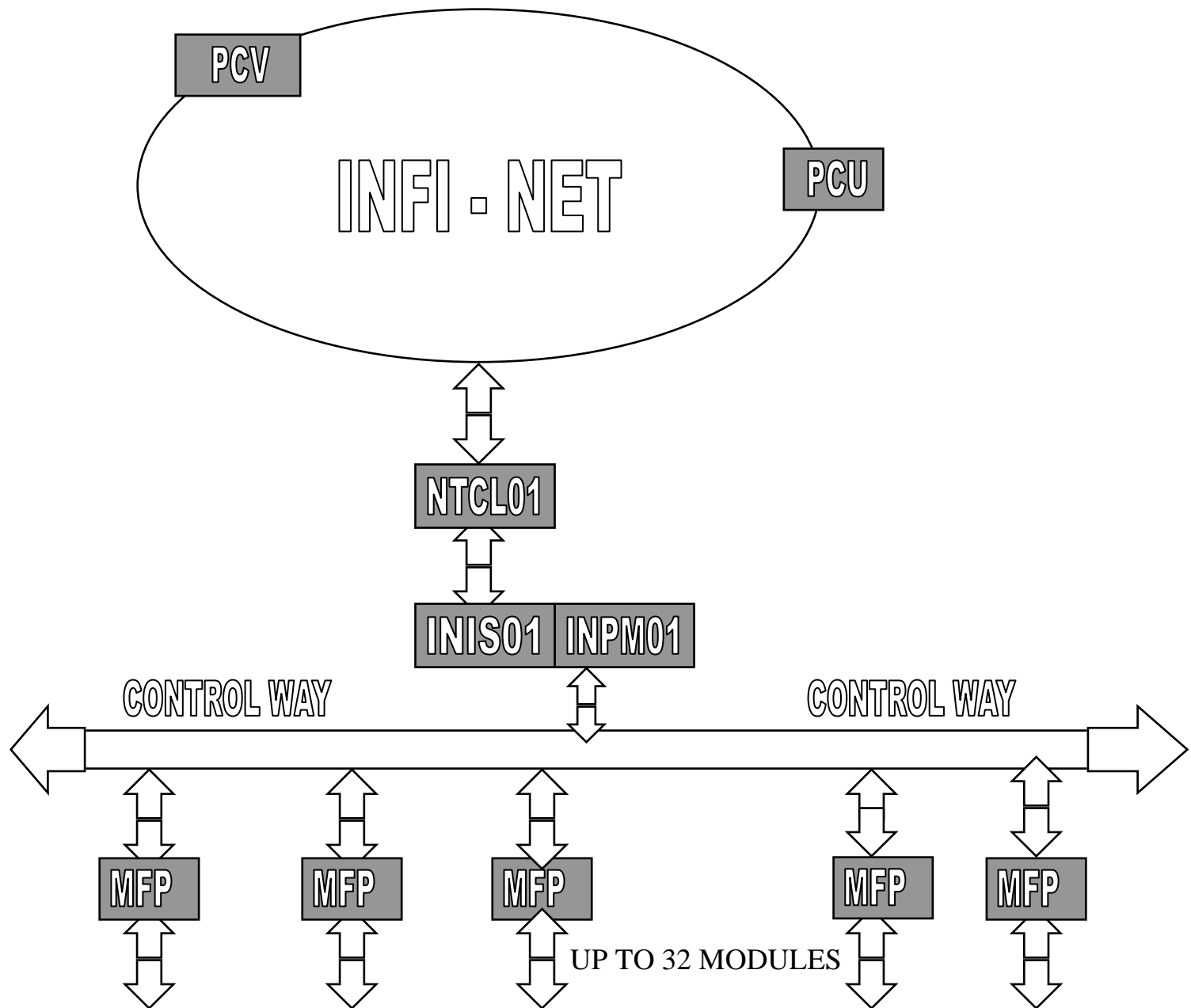
PT. KIANI KERTAS



DCS LOCAL AREA NETWORK



DISTRIBUTED CONTROL SYSTEM



STEP OF DCS SIGNALS

