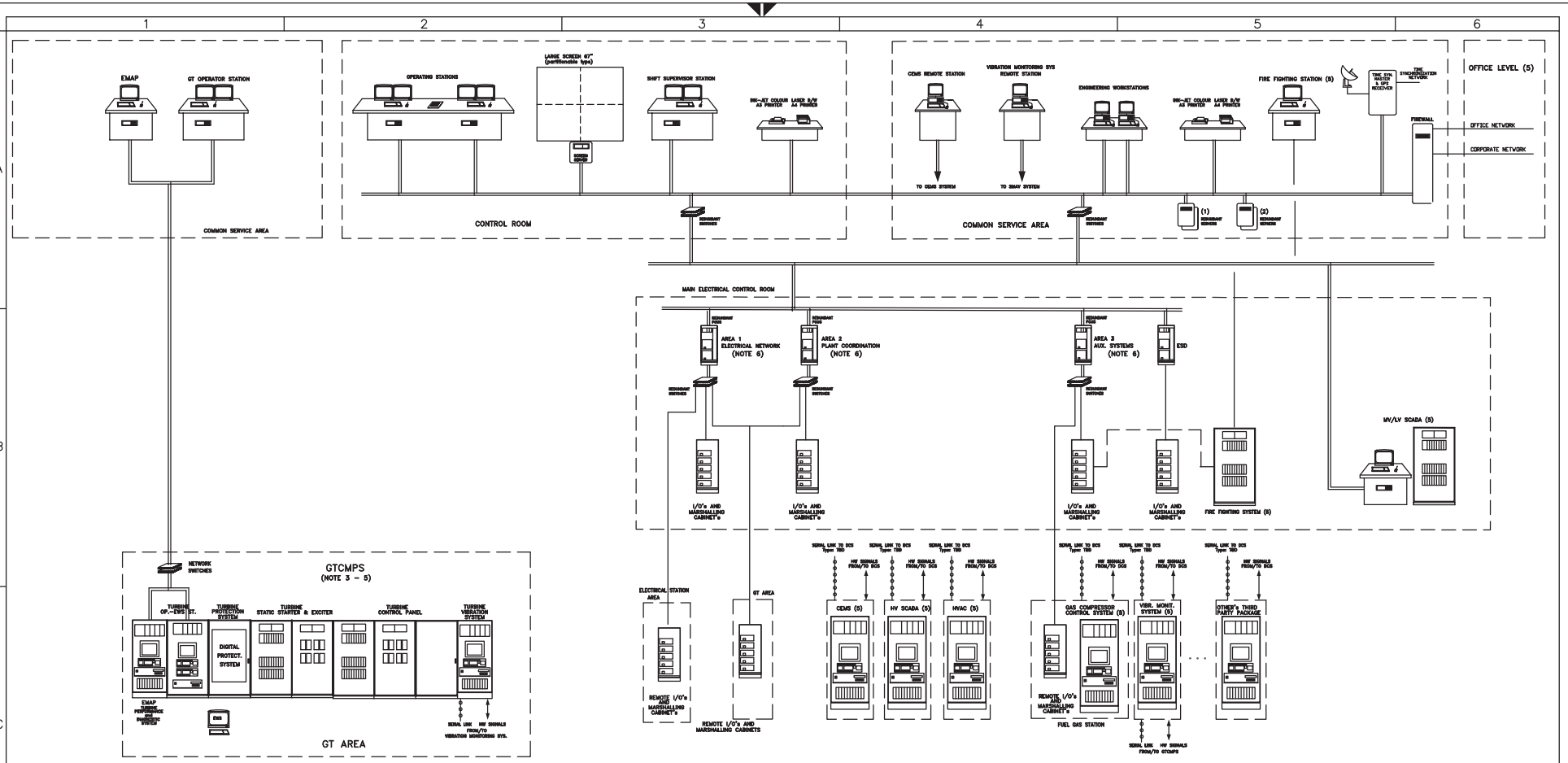
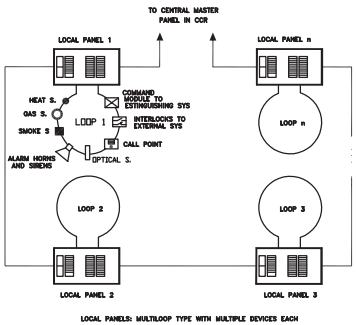



OCGT PHASE

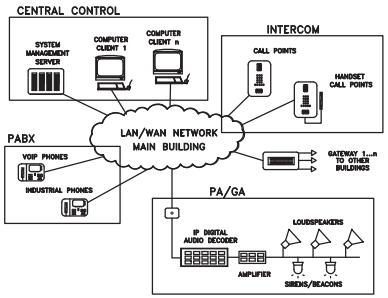
## INFRASTRUCTURAL SYSTEMS (NOTE 5) – TBD THE SCOPE OF SUPPLY DEPENDING ON THE EXISTING SYSTEM CAPABILITY

### FIRE FIGHTING & DETECTION SYSTEM




LOCAL PANELS: MULTILOOP TYPE WITH MULTIPLE DEVICES EACH

### COMMUNICATION SYSTEMS (PABX–PA/GA–INTERCOM–RADIO)




## NOTE

(1) REDUNDANT SERVERS FOR
- DIAGNOSTIC (INSTRUMENTATION & MAIN MACHINERY)
- MAINTENANCE
- ECONOMICAL PERFORMANCE
- HISTORY

(2) REDUNDANT SERVERS FOR
- INTERFACE WITH OTHER SYSTEM
- PROCESS DATA (FRONT END FOR WEB SERVICES)

(3) GTCMPS INTEGRATION in DCS via OPC (DA–AE) + HW SIGNALS

(4) N.A.

(5) NOT IN DCS SCOPE OF SUPPLY

(6) DCS AREAs MAIN SYSTEMS CONTENTS:
- AREA 1: POWER CENTERS, FEEDERS, TRANSFORMERS, BREAKERS, etc.
- AREA 2: LOAD COORDINATOR
- AREA 3: NATURAL GAS, COOLING WATERs, FIRE FIGHTING & DETECTION, etc. SIGNALS FROM/TO EXISTING DCS FOR THE INTERFACE WITH THE EXISTING COMMON AUXILIARY SYSTEMS (e.g. Dernl W., ITAR. etc.)

| REV. Rev. | DATE Data | SCOPE Scopo | REVISION DESCRIPTION Descrizione della revisione | PREPARED BY Preparato | COOPERATIONS Collaborazioni | APPROVED BY Approvato | ISSUED BY Emesso |
|---|---|---|---|---|---|---|---|
| 00 | 10/12/18 | PR | Preliminary | | | | |

ENGINEERING AND CONSTRUCTION

CLIENT Cliente: ENEL GLOBAL GENERATION – GENERATION ITALY

JOB No | DOC No

PROJECT Progetto: CAPACITY STRATEGY ITALY

TITLE Titolo: CONTROL SYSTEM ARCHITECTURE (OCGT/CCGT)

EMPLOYER SUBMITAL Invio al cliente
- ☐ FOR APPROVAL Per approvazione
- ☐ FOR INFORMATION ONLY Per informazione
- ☐ NOT REQUESTED Non richiesto

SYSTEM Sistema

APPLIC. TO SECTION Valido per le sezioni

SCALE Scala

DWG No Dis. n.: PBITC00103

| SHEET Foglio | FOLL.SHEET Segue fg. | OF Di | SIZE FORMATO | DWG TYPE Tipo el. | DISC. Disc. |
|---|---|---|---|---|---|
| 01 | 02 | 02 | A3 | D | N A |

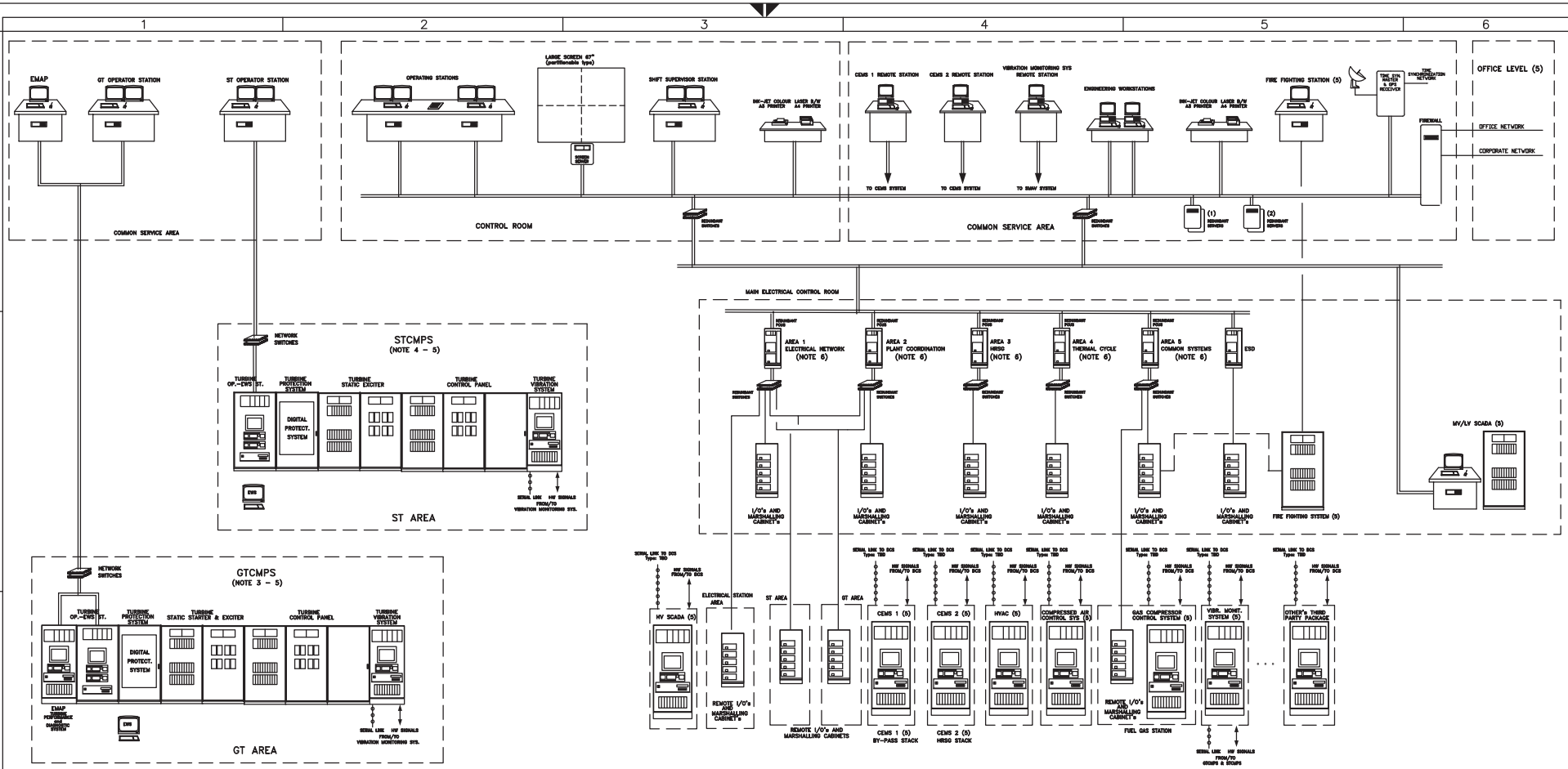
SEC. INDEX

FILE NAME Nome file: PBITC0010300

REPLACES DWG No Sostituisce il

THIS DOCUMENT IS PROPERTY OF ENEL Spa.
IT IS STRICTLY FORBIDDEN TO REPRODUCE THIS DOCUMENT, WHOLLY OR PARTIALLY AND TO PROVIDE ANY RELATED INFORMATION TO OTHERS WITHOUT PREVIOUS WRITTEN CONSENT.

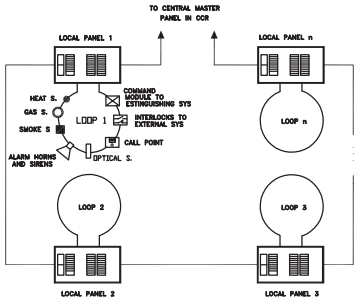
Questo documento è proprietà di ENEL Spa.
E' severamente proibito riprodurre anche in parte il documento o divulgare ad altri le informazioni contenute senza la preventiva autorizzazione scritta.




CCGT PHASE

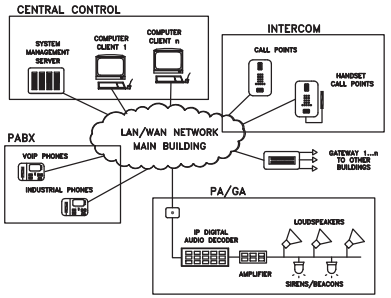
## INFRASTRUCTURAL SYSTEMS (NOTE 5)

### FIRE FIGHTING & DETECTION SYSTEM




LOCAL PANELS: MULTILOOP TYPE WITH MULTIPLE DEVICES EACH

### COMMUNICATION SYSTEMS (PABX-PA/GA-INTERCOM-RADIO)




NOTE

(1) REDUNDANT SERVERS FOR
- DIAGNOSTIC (INSTRUMENTATION & MAIN MACHINERY)
- MAINTENANCE
- ECONOMICAL PERFORMANCE
- HISTORY

(2) REDUNDANT SERVERS FOR
- INTERFACE WITH OTHER SYSTEM
- PROCESS DATA (FRONT END FOR WEB SERVICES)

(3) GTCMPS INTEGRATION IN DCS via OPC (DA-AE) + HW SIGNALS

(4) STCMPS INTEGRATION IN DCS via OPC (DA-AE) + HW SIGNALS

(5) NOT IN DCS SCOPE OF SUPPLY

(6) DCS AREAs MAIN SYSTEMS CONTENTS:
- AREA 1: POWER CENTERS, FEEDERS, TRANSFORMERS, BREAKERS, etc.
- AREA 2: LOAD COORDINATOR, GT, ST, ST BY-PASS, STACK DAMPERS, etc)
- AREA 3: HRSG, BY-PASS DAMPER, CHEMICAL SAMPLING, CEMS 1, CEMS 2, etc.
- AREA 4: CONDENSATE, FEED WATER, MAIN STEAM, CHEMICAL DOSING, etc.
- AREA 5: NATURAL GAS, WATER DISTRIBUTION, COOLING WATERs/TOWERs COMPRESSED AIR, AUX. BOILER, FIRE FIGHTING &DETECTION, COMMON PACKAGES SUCH AS DEMI PLANT, etc.

| REV. Rev. | DATE Data | SCOPE Scopo | REVISION DESCRIPTION Descrizione della revisione | PREPARED BY Preparato | COOPERATIONS Collaborazioni | APPROVED BY Approvato | ISSUED BY Emesso |
|---|---|---|---|---|---|---|---|
| 00 | 10/12/18 | PR | Preliminary | | | | |

ENGINEERING AND CONSTRUCTION

CLIENT Cliente: ENEL GLOBAL GENERATION - GENERATION ITALY

JOB No

DOC No

PROJECT Progetto: CAPACITY STRATEGY ITALY

TITLE Titolo: CONTROL SYSTEM ARCHITECTURE (OCGT/CCGT)

APPLIC. TO SECTION Valido per le sezioni

SCALE Scala

DWG No Dis. n.: PBITC00103

FILE NAME Nome file: PBITC0010300

REPLACES DWG No Sostituisce il

| SHEET Foglio | FOLL-SHEET Segue fg. | OF Di | SIZE FORMATO | DWG TYPE Tipo el. | DISC. Disc. |
|---|---|---|---|---|---|
| 02 | -- | 02 | A3 | D N | A |

SEC. INDEX

EMPLOYER SUBMITAL Invio al cliente
- ☐ FOR APPROVAL Per approvazione
- ☐ FOR INFORMATION ONLY Per informazione
- ☐ NOT REQUESTED Non richiesto

SYSTEM Sistema

THIS DOCUMENT IS PROPERTY OF ENEL Spa.
IT IS STRICTLY FORBIDDEN TO REPRODUCE THIS DOCUMENT, WHOLLY OR PARTIALLY AND TO PROVIDE ANY RELATED INFORMATION TO OTHERS WITHOUT PREVIOUS WRITTEN CONSENT.

Questo documento è proprietà di ENEL Spa.
E' severamente proibito riprodurre anche in parte il documento o divulgare ad altri le informazioni contenute senza la preventiva autorizzazione scritta.