

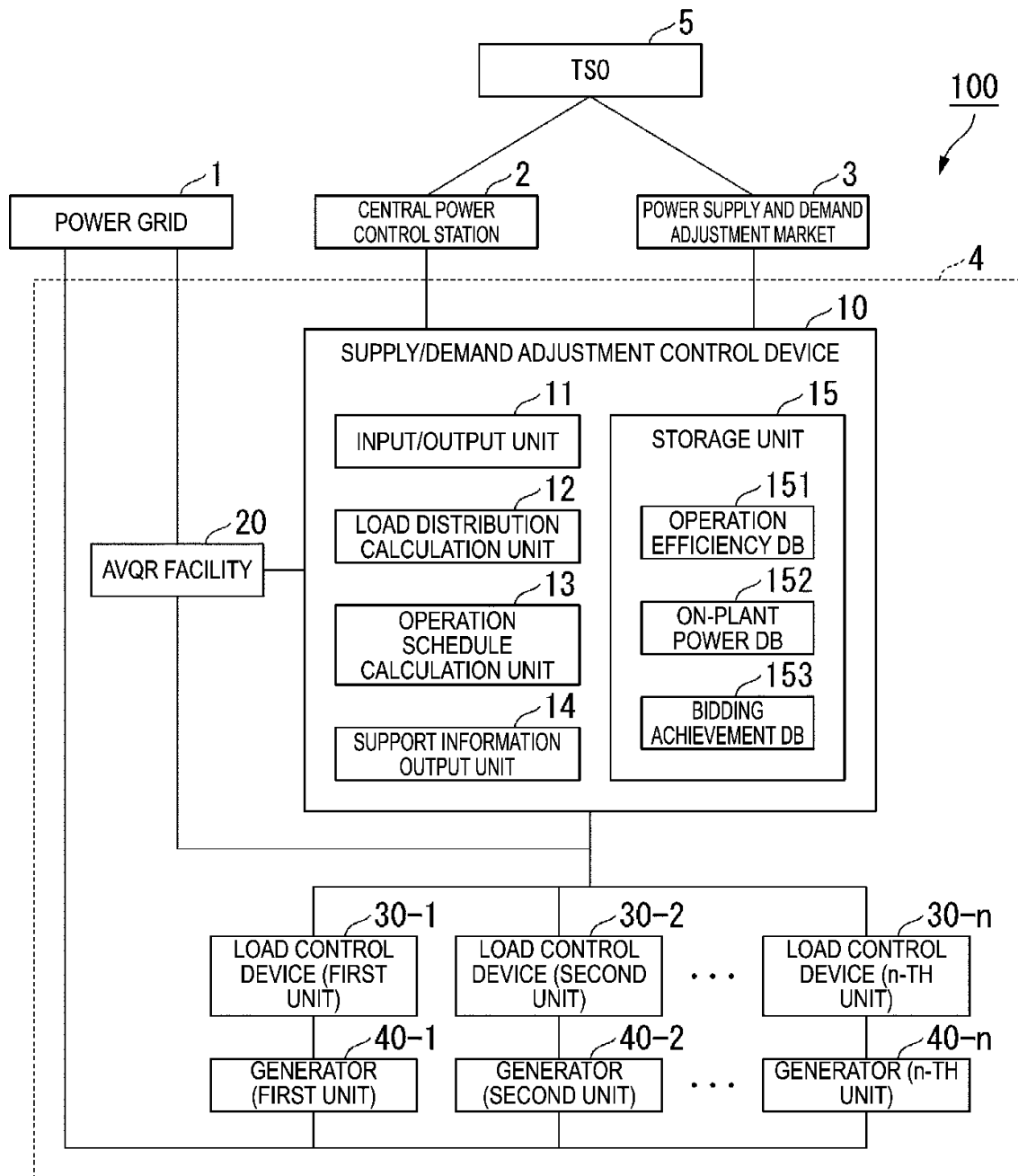


FIG. 1

GENERATOR ID	RANK (OPERATION EFFICIENCY)	OPERABILITY	CONSTRAINT CONDITION	RATED	...
FIRST UNIT	2 (a%)	NOT OPERABLE (UNDER REPAIR)	NOTHING	200MW	...
SECOND UNIT	3 (b%)	OPERABLE	NOTHING	200MW	...
THIRD UNIT	1 (c%)	OPERABLE	NOTHING	200MW	...
...	...	...	...	...	...

FIG. 2A

GENERATOR ID	RANK (OPERATION EFFICIENCY)	OPERABILITY	CONSTRAINT CONDITION	RATED	...
FIRST UNIT	1 (a%)	OPERABLE	NOT OPERABLE AT 130 MW	200MW	...
SECOND UNIT	2 (b%)	OPERABLE	NOTHING	200MW	...
THIRD UNIT	3 (c%)	OPERABLE	NOTHING	200MW	...
...	...	...	...	...	...

FIG. 2B

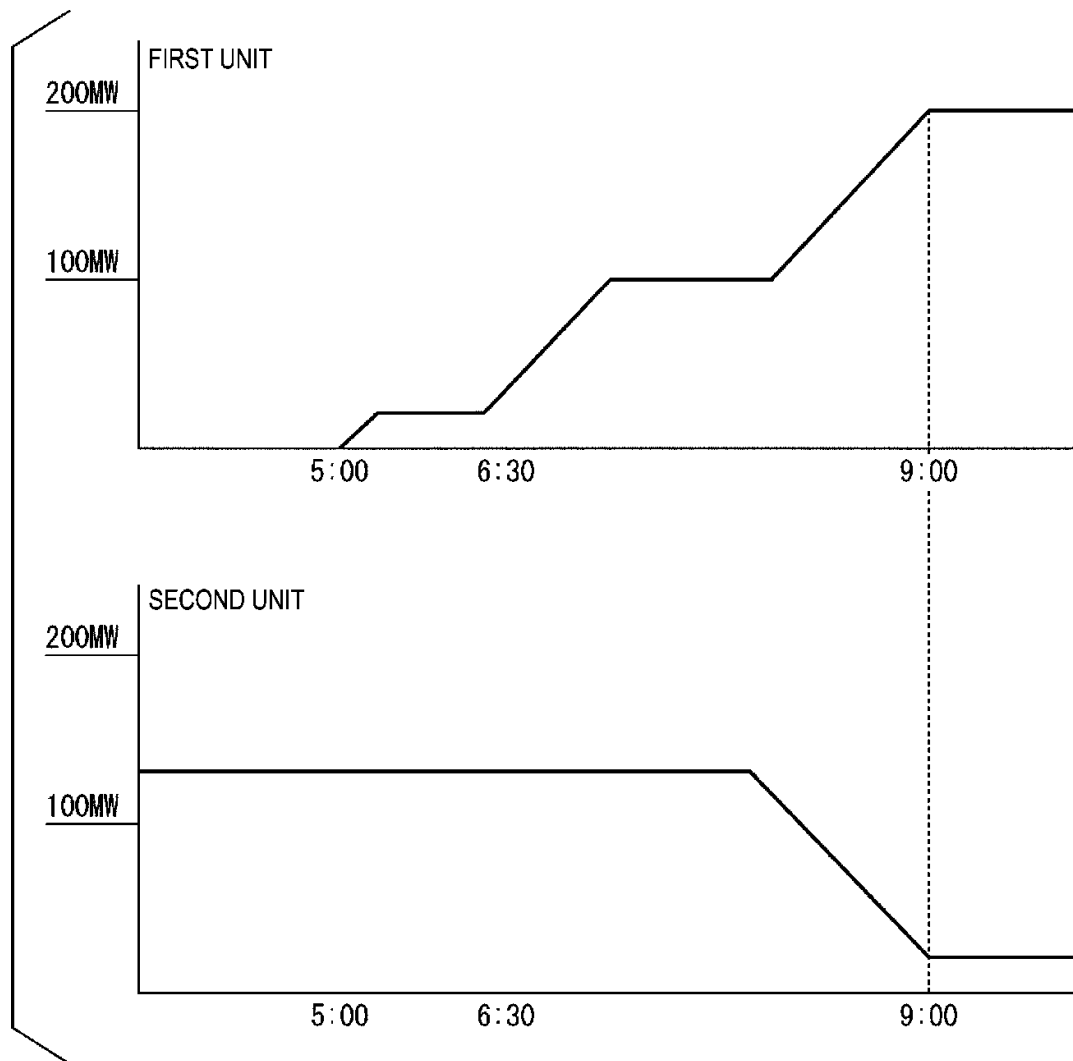


FIG. 3

DATE AND TIME	TIME	TEMPERATURE	WEATHER	REQUESTED POWER
yyyy/mm/d1	9:00	30°C	SUNNY	X1 (MW)
yyyy/mm/d2	15:00	30°C	CLOUDY	X2 (MW)
...	...	...	...	...

FIG. 4

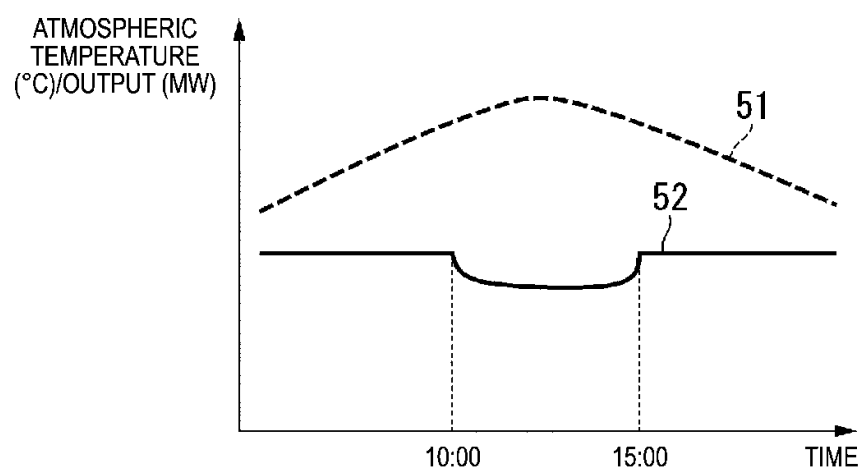
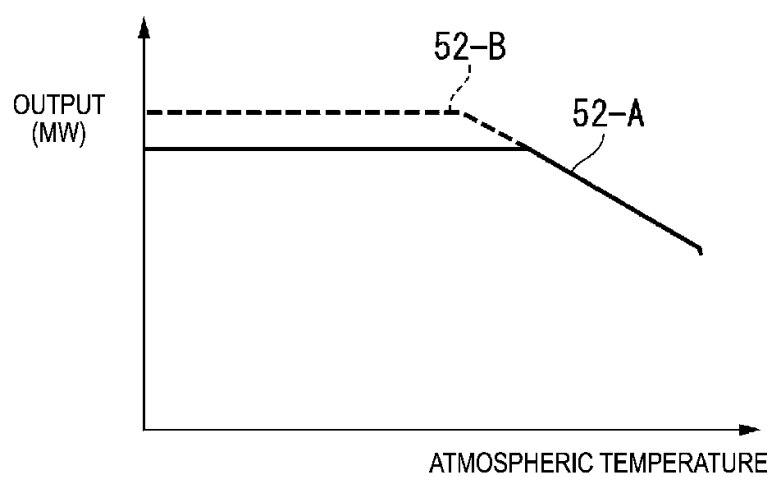


FIG. 5A

**FIG. 5B**

FACILITY ID	POWER CONSUMPTION	TIME SLOT	OPERATING CONDITION
AIR CONDITIONER A	X1	9:00 TO 20:00	TEMPERATURE NOT LOWER THAN 28°C
FACILITY B	X2	16:00 TO 22:00	OPERATE ONLY IN NOVEMBER TO MARCH
...	...	...	...

FIG. 6

COMPANY ID	POWER PLANT ID	POWER LOAD RANGE	DATE	TIME SLOT	BIDDING RESULT
COMPANY 3	POWER PLANT A	X1	YEAR yyyy, MONTH mm, DAY d1	6:00	○
COMPANY 2	POWER PLANT B	X1	YEAR yyyy, MONTH mm, DAY d1	9:00	×
COMPANY 2	POWER PLANT B	X2	YEAR yyyy, MONTH mm, DAY d2	18:00	○
COMPANY 1	POWER PLANT 4 (HOST)	X3	YEAR yyyy, MONTH mm, DAY d3	5:00	○
...	...	...	...	...	...

FIG. 7

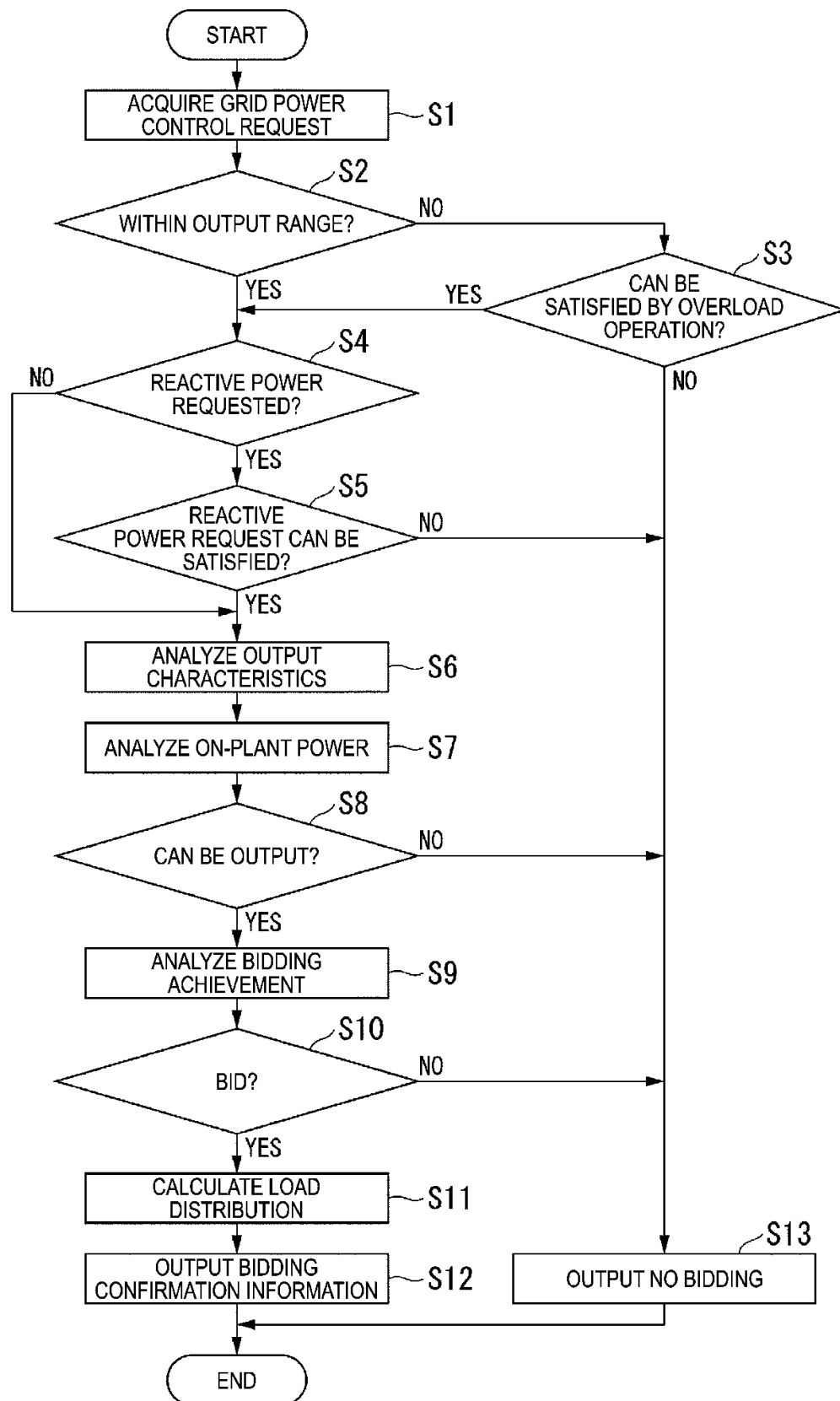


FIG. 8A

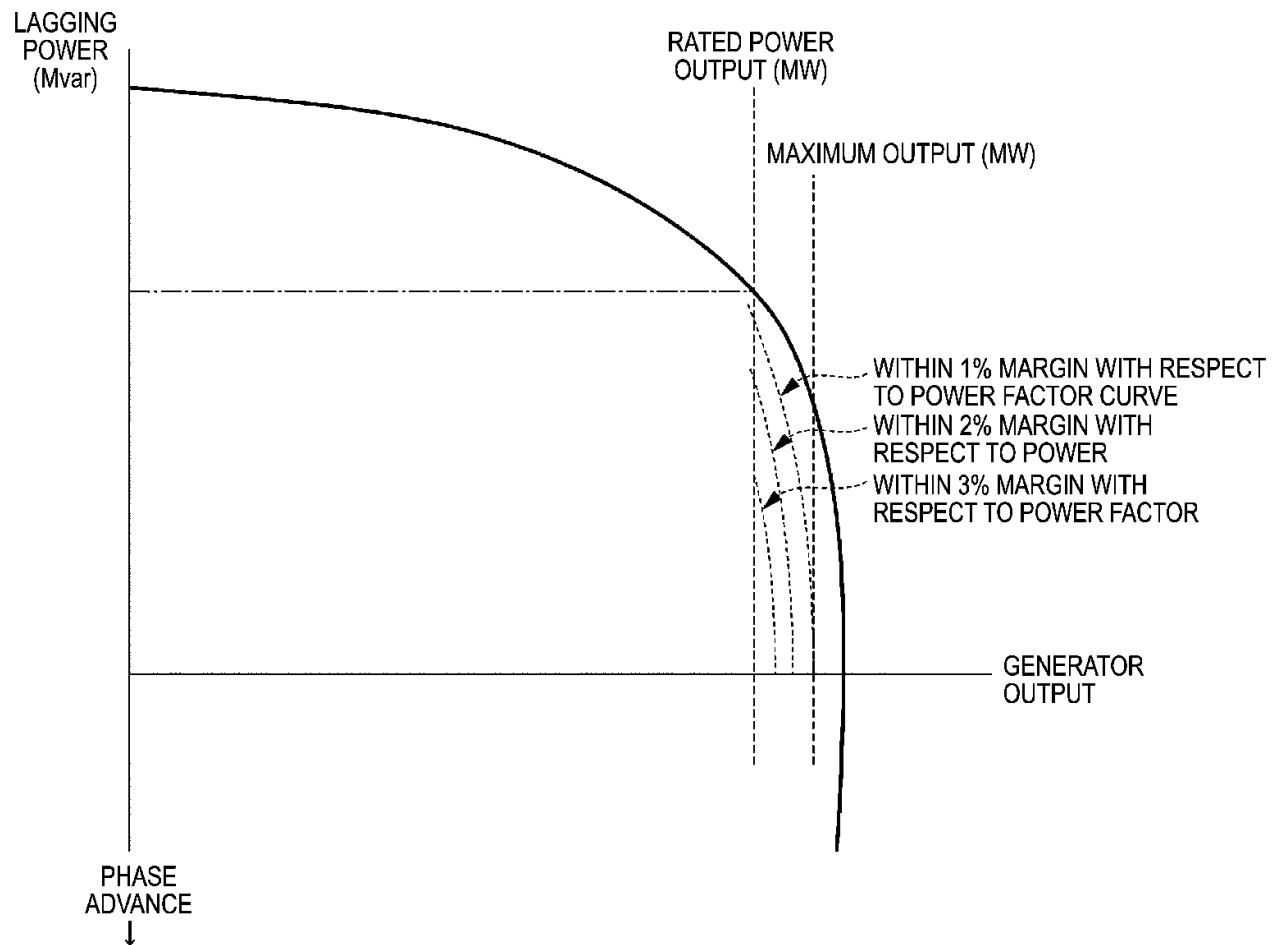


FIG. 8B

MW SUPPLY REQUEST IS RECEIVED, BUT
BID IS NOT MADE BECAUSE ***.

CONFIRM

FIG. 9A

MW SUPPLY REQUEST IS RECEIVED.
DISPLAY?

YES

NO

FIG. 9B

REQUEST DATE AND TIME: 13:20, DAY **, MONTH **, YEAR 20**
SUPPLY REQUEST 500MW

WHEN BIDDING IS MADE, ADDITIONAL LOAD DISTRIBUTION IS AS FOLLOWS

FIRST UNIT	200MW
SECOND UNIT	200MW
THIRD UNIT	100MW

OK?

FIG. 10A

BID FOR SUPPLY REQUEST?

FIRST UNIT 200MW
SECOND UNIT 200MW
THIRD UNIT 100MW

FIG. 10B

REQUEST DATE AND TIME: 13:20, DAY **, MONTH **, YEAR 20**
SUPPLY REQUEST 500MW

FIRST UNIT		MW
SECOND UNIT		MW
THIRD UNIT		MW
TOTAL	* * *	MW

FIG. 11A

RESPOND TO SUPPLY REQUEST UNDER FOLLOWING SETTING?
REQUEST DATE AND TIME: 13:20, DAY **, MONTH **, YEAR 20**
SUPPLY REQUEST 500MW

	STANDARD SETTING		AFTER SETTING CHANGE
FIRST UNIT	200MW	→	200MW
SECOND UNIT	200MW	→	100MW
THIRD UNIT	100MW	→	200MW
TOTAL EFFICIENCY	40.4%	→	40.6%

FIG. 11B

FOLLOWING LOAD SETTING IS RECOMMENDED FOR SUPPLY REQUEST
REQUEST DATE AND TIME: 13:20, DAY **, MONTH **, YEAR 20**
SUPPLY REQUEST **500MW**

	STANDARD SETTING		RECOMMENDED SETTING
FIRST UNIT	200MW	→	150MW
SECOND UNIT	200MW	→	200MW
THIRD UNIT	100MW	→	150MW
TOTAL EFFICIENCY	40.4%	→	40.9%

FIG. 12

REJECT SUPPLY REQUEST?

YES

NO

FIG. 13

REACTIVE POWER ADJUSTMENT IS REQUIRED
FOR MW SUPPLY REQUEST
DISPLAY?

YES NO

FIG. 14A

REACTIVE POWER NEEDS TO BE ADJUSTED WHEN
RESPONDING TO SUPPLY REQUEST UNDER FOLLOWING LOAD
SETTING.

REQUEST DATE AND TIME: 13:20, DAY **, MONTH **, YEAR 20**

SUPPLY REQUEST **500MW**

RATED REACTIVE POWER 275 MVar/AXIS

LAGGING REACTIVE POWER 147.3MVar → 118.2MVar

FIG. 14B

REQUEST DATE AND TIME: 13:20, DAY **, MONTH **, YEAR 20**
SUPPLY REQUEST 500MW

REACTIVE POWER DISTRIBUTION IS AS FOLLOWS.

FIRST UNIT	* * * MVar
SECOND UNIT	* * * MVar
THIRD UNIT	* * * MVar
TOTAL	* * * MVar

OK?

FIG. 14C

ALLOW OVERLOAD OPERATION FOR MW SUPPLY
REQUEST?

YES

NO

FIG. 15A

LOAD SETTING FOR RESPONDING TO SUPPLY REQUEST
WITH OVERLOAD OPERATION IS AS FOLLOWS. ADJUST?

REQUEST DATE AND TIME: 13:20, DAY **, MONTH **, YEAR 20**
SUPPLY REQUEST 500MW
SHORTAGE (TOTAL) 25MW
OVERLOAD + 8.3 MW/AXIS

FIG. 15B

REACTIVE POWER READJUSTMENT AMOUNT UNDER OVERLOAD IS AS FOLLOWS

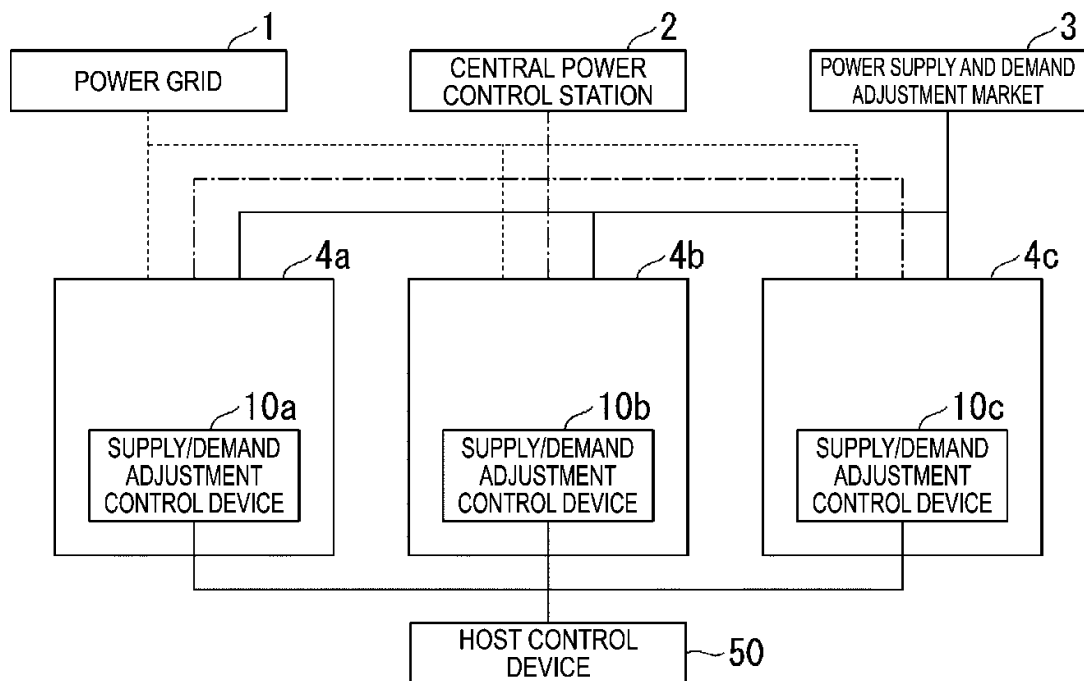
REQUEST DATE AND TIME: 13:20, DAY **, MONTH **, YEAR 20**

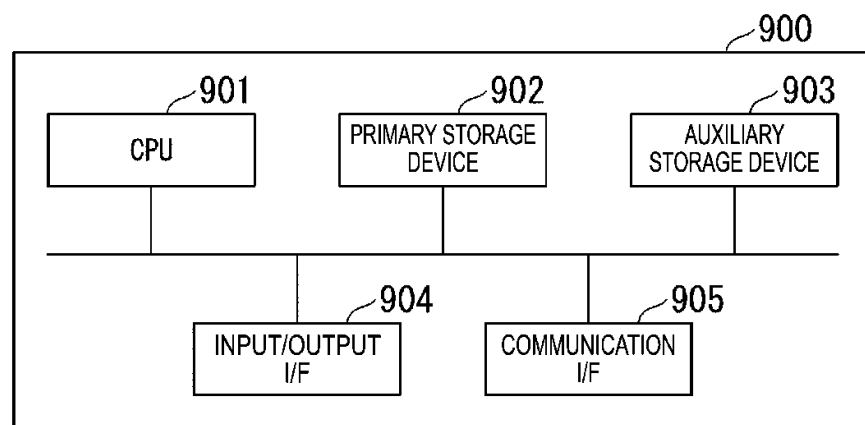
SUPPLY REQUEST 500MW

TARGET OUTPUT 256 MVar/AXIS

LAGGING REACTIVE POWER 147.3MVar → 90.0MVar

FIG. 15C

**FIG. 16**

**FIG. 17**