APPENDIX A—STARTUP SETTINGS SHEETS

Startup Settings Sheets are provided to further simplify the programming process. Startup Settings Sheets do the following:

- Provide a preview of the detailed information required by the IQ Analyzer in the "Program Mode" by individual programming category. This permits the operator to gather all required information prior to beginning the programming process.
- Provide a place to logically record the required programming details for the particular application.

Make a copy of the required sheets and complete them as required for the application. Follow the step by step instructions on each individual sheet. Note that each sheet references the Screens Tree by Figure Number, and the text by Paragraph Number associated with that particular sheet. The Screens Tree is especially helpful since it presents an overall view of the entire programming category.

NOTICE

It is highly recommended that each step on a Startup Settings Sheet be followed carefully in sequence. This will help to insure that all required information is recorded accurately the first time.

			Startup Setting	gs Sheet #1
		G	ENERAL SE (Reference Paragra	TUP SETTINGS ph 5-5 and Figure 6-4)
Step 1:	Choose Type of System		3 PHASE/4 WIRE 3 PHASE/3 WIRE 1 PHASE/3 WIRE 1 PHASE/2 WIRE	Select One
Step 2:	If either single phase sys selected, choose the Pha	tem w ase Ro	vas selected in Step 1 otation.	, proceed to Step 3. If either three phase system w
			ABC ROTATION CBA ROTATION	Select One
Step 3:	Choose Frequency		25 HZ 40 HZ 50 HZ 60 HZ	Select One
Step 4: Step 5: Step 6: Step 7:	Choose Incoming L-L Vo Choose PT Primary Ratii (120 volts secondary ass Choose CT Primary Ratii (5A secondary assumed) Choose GND CT Primar	Itage ng sumed ng y Ratir	 Enter from 100-6 Enter from 120-5 Enter from 5-10, Enter from 5-10 	600 Vac 500,000 volts,, ,000A,,
	(5A secondary assumed)			Select One
Step 8:	Programming Options)))))	Faceplate only Faceplate & Network Input3 key only Input3 key & Networ	
Step 9:	Power Energy Options)))))	Kilowatt-hours Megawatt-hours	Select One
Stop 10				Select One
Step 10	Convention		Lagging Vars & PF negative at load Lagging Vars & PF Positive at load	
Step 11	Communication Mode		IQA 6000/6200 (Series-III)	
			IQ66400/6600 (PowerNet)	

Step 12: Date and Time)))))	Enter updated date and time if required		
Step 13: Change Password)))))	Enter new 5 digit password if required		

GENERAL SETUP PROGRAMMING COMPLETE

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Page A-4

Startup Settings Sheet #2

ANALOG INPUT SETTINGS

(Reference Paragraph 5-6.2 and Figure 6-5)

Note: One Analog Input is available

Step 1: Analog Input

Select One

₩ 0-20mA 4-20mA

ANALOG INPUT PROGRAMMING COMPLETE

ANALOG OUTPUT SETTINGS

Select Up to Three

(Reference Paragraph 5-6.3 and Figure 6-6)

Note: Up to three Analog Outputs are available. Each is programmed individually.

Step 1: Choose Analog Outputs ANALOG OUTPUT 1 **ANALOG OUTPUT 2**

ANALOG OUTPUT 3

Step 2: Choose and indicate in the space provided one of the below listed parameter types for each of the Analog Outputs selected in Step1.

		Parameter Types			Parame	eter Selections
Current	Voltage	Power	%THD	Frequency	Power Factor	
IA	VAN	SYSTEM WATTS	IA	VAN	System 🗯	Analog Output 1
IB	VBN	PHASE A WATTS	IB		Displacement	Analog Output 2
IC	VCN	PHASE B WATTS	IC		and	Analog Output 3
IN	VAB	PHASE C WATTS	IN		System	
IG	VBC	SYSTEM VARS	VAN		Apparent	
IAVG	VCA	PHASE A VARS	VBN			
	VNG	PHASE B VARS	VCN			
		PHASE C VARS	VAB			
		SYSTEM VA	VBC			
		PHASE A VA	VCA			
		PHASE B VA				
		PHASE C VA				

Step 3: Indicate in the space provided, parameter selections for each of the Analog Outputs selected in Step 1. All spaces within a particular Analog Output should be complete, except as indicated.



Parameter Selections

DISCRETE INPUT SETTINGS

(Reference Paragraph 5-6.1 and Figure 6-7)

Note: Up to three Discrete Inputs are available. Each is programmed individually.

			Select Up to Three
Step 1: Choose Discrete Inputs)))))	DISCRETE INPUT 1	
		DISCRETE INPUT 2	
		DISCRETE INPUT 3	
		DISCRETE INPUT 2 DISCRETE INPUT 3	

Step 2: Choose and indicate in the space provided one of the below listed categories for each of the Discrete Inputs selected in Step1.

Discrete Input Category	<u>Catego</u>	<u>ry</u>
EVENT TRIGGER INPUT		Discrete Input 1
		Discrete Input 2
(Applicable to Discrete Input #1 Only)		Discrete Input 3

- Note: If "Event Trigger" or "Sync Input" was selected in Step 2, programming is complete for that particular Discrete Input after completing Step 2.
- **Step 3:** If "Reset Input" was selected in Step 2 for any or all of the Discrete Inputs, choose and indicate in the space provided one of the below listed categories for each of the Discrete Inputs from Step 2 requiring additional programming.

Reset Category	Cat	tegory
RESET PEAK DEMAND		Discrete Input 1
RESET MIN/MAX		Discrete Input 2
RESET TRIGGER LOCK		Discrete Input 3

- Note: If "Reset Peak Demand" or "Reset Min/Max" was selected in Step 3, programming is complete for that particular Discrete Input after completing Step 3.
- Note: If "Reset Trigger Lock" was selected in Step 3 for any particular Discrete Input, proceed directly to Step 5 to complete programming.

Startup Settings Sheet #4 Discrete Input Programming (continued from previous page)

Step 4: If "Reset Relays" was selected in Step 3 for any particular Discrete Input, choose and indicate in the space provided one of the below listed Relays for each applicable Discrete Input.

<u>Relays</u>	<u>Relay</u>
RELAY #1	Discrete Input 1
RELAY #2	Discrete Input 2
RELAY #3 RELAY #4	Discrete Input 3

Step 5: If "Reset Trigger Lock" was selected in Step 3 for any particular Discrete Input, choose and indicate in the space provided one of the below listed Event Triggers for each applicable Discrete Input.

<u>Trigger Locks</u>		<u>Trigger Lock</u>	
ALL EVENT TRIGGERS	 		Discrete Input 1
EVENT TRIGGER #1			Discrete Input 2
EVENT TRIGGER #2	-		
EVENT TRIGGER #3	-		Discrete Input 3
EVENT TRIGGER #4			
EVENT TRIGGER #5			
EVENT TRIGGER #6			

DISCRETE INPUT PROGRAMMING COMPLETE

EVENT TRIGGER #7

EVENT TRIGGER SETTINGS

(Reference Paragraph 5-7.2, Figure 6-8, and Table 5.7)

Note: Up to seven Event Triggers can be programmed for 1 of 39 different conditions. Each is programmed individually.

Step 1: Choose the number of "Pre-Trigger Cycles" that will apply to all programmed Event Triggers and enter in the space provided.

PRE-TRIGGER CYCLES (0-6)

Select Up to Seven **EVENT TRIGGER 1** Step 2: Choose Event Triggers to be programmed **EVENT TRIGGER 2 EVENT TRIGGER 3 EVENT TRIGGER 4 EVENT TRIGGER 5 EVENT TRIGGER 6 EVENT TRIGGER 7**

- Note: If an Event Trigger will not be programmed, "Not Used" is entered for that particular Event Trigger. Especially as it applies to previously programmed IQ Analyzers, take the time to insure that it is made clear in Step 3 which Event Triggers will not be used. This will help to avoid unexplained Event happenings while the IQ Analyzer is in service.
- Note: To complete Event Trigger programming, programming selections will be made from Tables A through L and used to fill in the blank spaces provided in the Data Collection Table for each Event Trigger.
- Step 3: Check () "Not Used" in the Data Collection Table if a particular Event Trigger is not to be programmed. Double check to make sure that those checked "Not Used" are consistent with selections made in Step 2. No further programming action will be required for those Event Triggers programmed with "Not Used."
- **Step 4:** To complete Event Trigger programming, make programming level selections from the referenced tables stating with Table A, and indicate the selections in the spaces provided in the Data Collection Table.

TD 17530B

Startup Settings Sheet #5 Event Trigger Programming (continued from previous page)

Data Collection Table

Event Trigger	Not Used ()	Level 2 Selections (Select 1 from Table A)	Level 3 Selections	Level 4 Selections	Level 5 Selections	Level 6 Selections
1						
2						
3						
4						
5						
6						
7						

Continued on back side of page

Event Causes (Select One for Each Event Trigger being Programmed)	Further Programming
MAGNITUDE THD	If selected, complete programming selections from Table B
% THD	If selected, complete programming selections from Table C
MINIMUM	If selected, complete programming selections from Table D
MAXIMUM	If selected, complete programming selections from Table E
MAXIMUM DEMAND	If selected, complete programming selections from Table F
VOLTAGE DISTURBANCE	If selected, complete programming selections from Table G
FREQUENCY DEVIATION	If selected, complete programming selections from Table H
CURRENT UNBALANCE	If selected, complete programming selections from Table I
VOLTAGE UNBALANCE	If selected, complete programming selections from Table J
DISCRETE INPUT	If selected, complete programming selections from Table K
MANUAL CAPTURE REQUEST	If selected, complete programming selections from Table L
MIN/MAX UPDATE	If selected, complete programming selections from Table M

Table A Level 2 Selections

Table B Levels 3 through 5 Selections

(Use when Level 2 Selection is "Magnitude THD")

Level 3 (Select One Parameter)	Level 4 (Select One to Four Parameters as Required)	Level 5 (Establish a Corresponding Input for Each Parameter Selected for Level 4)
IA IB	TRIGGER THRESHOLD	* Required Trigger Threshold Current or Voltage
IC		* Dequired Depart Threshold Current or Veltage
VAN	RESET THRESHOLD	Required Reset Threshold Current or Voltage
VBN VCN	REQUEST (MANUAL/AUTO)	Select Auto or Manual
VAB VBC		Calast Dalay Time form 0.4 to 00 accorde
VCA		(in 0.1 second increments)

* Refer to "RAW #" in the glossary if assistance is required with establishing the desired current or voltage in terms of its "RAW #."

Table C
Levels 3 through 5 Selections
(Use when Level 2 Selection is "% THD")

Level 3 (Select One Parameter)	Level 4 (Select One to Four Parameters as Required)	Level 5 (Establish a Corresponding Input for Each Parameter Selected for Level 4)
IA IB IC	TRIGGER THRESHOLD	Select Trigger Threshold Percentage up to 1000% (in 1% increments)
IN VAN VBN	RESET THRESHOLD	Select Reset Threshold Percentage up to 1000% (in 1% increments)
VCN VAB	REQUEST (MANUAL/AUTO)	Select Auto or Manual
VBC VCA	DELAY TIME	Select Delay Time form 0.1 to 60 seconds (in 0.1 second increments)

Table D Levels 3 through 5 Selections (Use when Level 2 Selection is "Minimum")

Level 3 (Select One Parameter)	Level 4 (Select One to Four Parameters as Required)	Level 5 (Establish a Corresponding Input for Each Parameter Selected for Level 4)
IA IB IC	TRIGGER THRESHOLD	 * (Required) Trigger Threshold Current or Watts or Vars or VA or PF
SYSTEM WATTS SYSTEM VARS SYSTEM VA	RESET THRESHOLD	 * (Required) Reset Threshold Current or Watts or Vars or VA or PF
SYSTEM PF (DISPLACEMENT) SYSTEM PF (APPARENT)	RESET (MANUAL/AUTO)	Select Auto or Manual
	DELAY TIME	Select Delay Time form 0.1 to 60 seconds (in 0.1 second increments)

1. Refer to "RAW #" in the glossary if assistance is required with establishing the desired current in terms of its "RAW #."

2. Watts, Vars, VA (up to + 1200)

3. Power Factor (<u>+</u> 0 − 100%)

Continued on back side of page

Table E Levels 3 through 5 Selections (Use when Level 2 Selection is "Maximum")

Level 3 Level 4 Level 5 (Select One (Select One to Four (Establish a Corresponding Input for Each Parameter) Parameter Selected for Level 4) Parameters as Required) IA TRIGGER THRESHOLD * (Required) Trigger Threshold Current or IB Voltage or Watts or Vars or VA or PF IC IN RESET THRESHOLD (Required) Reset Threshold Current or IG Voltage or Watts or Vars or VA or PF VGN SYSTEM WATTS **RESET (MANUAL/AUTO)** Select Auto or Manual SYSTEM VARS SYSTEM VA DELAY TIME Select Delay Time form 0.1 to 60 seconds SYSTEM PF (DISPLACEMENT) (in 0.1 second increments) SYSTEM PF (APPARENT)

1. Refer to "RAW #" in the glossary if assistance is required with establishing the desired current or voltage in terms of its "RAW #."

- 2. Watts, Vars, VA (up to \times 1200)
- 3. Power Factor (≫ 0 100%)

Table F Levels 3 through 5 Selections (Use when Level 2 Selection is "Maximum Demand")

Level 3 (Select One Parameter)	Level 4 (Select One to Three Parameters as Required)	Level 5 (Establish a Corresponding Input for Each Parameter Selected for Level 4)
IA IB IC	TRIGGER THRESHOLD	 * (Required) Trigger Threshold Current or Watts or Vars or VA
IAVG SYSTEM WATTS SYSTEM VARS	RESET THRESHOLD	 * (Required) Reset Threshold Current or Watts or Vars or VA
SYSTEM VA	REQUEST (MANUAL/AUTO)	Select Auto or Manual

1. Refer to "RAW #" in the glossary if assistance is required with establishing the desired current in terms of its "RAW #."

2. Watts, Vars, VA (up to + 1200)

Table G
Levels 3 through 6 Selections
(Use when Level 2 Selection is "Voltage Disturbance")

Level 3 (Select One Parameter)	Level 4 (Select One Parameter)	Level 5 (Select One to Four Parameters as Required)	Level 6 (Establish a Corresponding Input for Each Parameter Selected for Level 5)
SAG SWELL	LINE – LINE VOLTS	TRIGGER THRESHOLD	* Required Trigger Threshold Volts
•===	LINE – NEUTRAL VOLTS	RESET THRESHOLD	* Required Reset Threshold Volts
VOLTO		RESET (MANUAL/AUTO)	Select Auto or Manual
		DELAY TIME	Select Delay Time from 0 to 3600 cycles (in 2 cycle increments)
Interruption (IQA-6400 only)	٨	lo Further Selections Required	for Interruption
Excess dV/dt (IQA-6600 only)	٨	lo Further Selections Required	 for Interruption

* Refer to "RAW #" in the glossary if assistance is required with establishing the desired current in terms of its "RAW #."

Table H Levels 3 through 5 Selections (Use when Level 2 Selection is "Frequency Deviation")

Level 3 (Select One Parameter)	Level 4 (Select One to Four Parameters as Required)	Level 5 (Establish a Corresponding Input for Each Parameter Selected for Level 4)
HIGH LOW HIGH OR LOW	TRIGGER THRESHOLD	Required Trigger Threshold Frequency (0.02 to 10Hz in increments of 0.01)
	RESET THRESHOLD	Required Reset Threshold Frequency (0.02 to 10Hz in increments of 0.01)
	REQUEST (MANUAL/AUTO)	Select Auto or Manual
	DELAY TIME	Select Delay Time from 0.1 to 60 seconds (in 0.1 second increments)

Continued on back side of page

Table I		
Levels 3 and 4 Selections		
(Use when Level 2 Selection is "Current Unbalance")		

Level 3 (Select One to Four Parameters as Required)	Level 4 (Establish a Corresponding Input for Each Parameter Selected for Level 3)
TRIGGER THRESHOLD	Required Trigger Threshold (1 to 100%)
RESET THRESHOLD	Required Reset Threshold (1 to 100%)
RESET (MANUAL/AUTO)	Select Auto or Manual
DELAY TIME	Select Delay Time from 0.1 to 60 seconds (in 0.1 second increments)

Table J Levels 3 through 5 Selections (Use when Level 2 Selection is "Voltage Unbalance")

Level 3 (Select One Parameter)	Level 4 (Select One to Four Parameters as Required)	Level 5 (Establish a Corresponding Input for Each Parameter Selected for Level 4)
LINE – LINE VOLTS	TRIGGER THRESHOLD	Required Trigger Threshold (1 to 100%)
LINE – NEUTRAL VOLTS	RESET THRESHOLD	Required Reset Threshold (1 to 100%)
	RESET (MANUAL/AUTO)	Select Auto or Manual
	DELAY TIME	Select Delay Time from 0.1 to 60 seconds (in 0.1 second increments)

Table K Levels 3 Selection (Use when Level 2 Selection is "Discrete Input")

Level 3 (Select One)	
INPUT #1	
INPUT #2	
INPUT #3	

Table L Levels 3 Selection

(Use when Level 2 Selection is "Manual Capture Request")

Level	3
(Select C	ne)

FRONT PANEL ONLY

IMPACC AND FRONT PANEL

Table M Levels 3 Selection (Use when Level 2 Selection is "MIN/MAX UPDATE")

Level 3 (Select One to Five Parameters as Required)	
MIN/MAX CURRENT	
MIN/MAX VOLTAGE	
MIN/MAX POWER FACTOR	
MIN/MIX POWER/FREQUENCY	
MIN/MAX THD	

EVENT TRIGGER PROGRAMMING COMPLETE

RELAY OUTPUT SETTINGS (*Reference Paragraph 5-6.4 and Figure 6-9*)

Note: Up to four Form C (NO/NC) Relay Outputs are available. Each is programmed individually.

	Sele	ect Up to Four	
Step 1: Choose Relay Outputs	RELAY OUTPUT 1	RELAY OUTPUT 2 RELAY OUTPUT 3 RELAY OUTPUT 4	

Step 2: Choose one Mode Option for each Relay Output selected in Step 1.

Relay Output 1 🗯	Mode 1: Active = ON \Box	Relay Output 3	Mode 1	: Active = ON \Box
	Mode 2: Active = OFF \Box		Mode 2	: Active = OFF 🖵
Relay Output 2 🗯	Mode 1: Active = ON \Box	Relay Output 4	Mode 1	: Active = ON \Box
	Mode 2: Active = OFF		Mode 2	: Active = OFF \Box

Step 3: Choose and indicate in the space provided one of the below listed categories for each of the Relay Outputs selected in Step 1.

Reset Output Category		<u>Category</u>	
DISABLE)))		_Relay Output 1
			_Relay Output 2
EVENT/DINPUT/NETWORK			_Relay Output 3
REVERSE SEQUENCE ALARM			Relay Output 4

Note: If "Disable" was selected in Step 3 for any Relay Output, programming is complete for that particular Relay Output after completing Step 3.

Note:(1)If "Load Shedding" was selected in Step 3 for any Relay Output, proceed directly to
those particular Relay Outputs.

- (2) If "Pulse Initiator" was selected in Step 3 for any Relay Output, proceed directly to Step 6 for those particular Relay Outputs.
- (3) If "Event/Dinput/Network" was selected in Step 3 for any Relay Output, proceed directly to Step 7 for those particular Relay Outputs.
- (4) If "Reverse Sequence Alarm" was selected in Step 3 for any Relay Output, proceed directly to Step 8 for those particular Relay Outputs.

Step 4: For those Relay Outputs with "Load Shedding," choose and indicate in the space provided one of the below listed parameters for each Relay Output with "Load Shedding."

Load Shedding Parameters	Parame	ters
DEMAND AMPS		Relay Output 1
DEMAND FORWARD WATTS		Relay Output 2
DEMAND REVERSE WATTS DEMAND FORWARD VARS		Relay Output 3
DEMAND REVERSE VARS		Relay Output 4
DEIVIAND VA		

Step 5: For those Relay Outputs with a specific "Load Shedding Parameter" identified in Step 4, indicate in the space provided below the new "Threshold Setting" for each Relay Output.



- Note: Programming is complete upon completion of Step 5 for any Relay Output with "Load Shedding."
- Step 6: For those Relay Outputs with "Pulse Initiator," choose and indicate in the space provided one of the below listed parameters for each Relay Output with "Pulse Indicator."

Pulse Initiator Parameters	Parame	eters
FORWARD KW-HR		Relay Output 1
FORWARD KVAR-HR		Relay Output 2
REVERSE KW-HR		Relay Output 3
REVERSE KVAR-HR		Relay Output 4

Note: Programming is complete upon completion of Step 6 for any Relay Output with "Pulse Initiator."

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Step 7: For those Relay Outputs with "Event/Alarm/IMPACC," select one or more "Event/ DINPUT/NETWORK" categories by checking () the appropriate boxes. At the same time, check () the appropriate box to indicate the type of "Reset" for each "Event/DINPUT/NETWORK" category selected. If "Automatic Reset" is selected, indicate in the space provided the "Release Time" from 0 to 1800 seconds.

RELAY OUTPUT 1

Event/Alarm/IMPACC	Category	Res	<u>et Types</u>	Automatic Release Time
		(Manual)	(Automatic)	
NOT USED		No I	Further Selection R	Required
EVENT TRIGGER #1				<u> </u>
EVENT TRIGGER #2				
EVENT TRIGGER #3				<u> </u>
EVENT TRIGGER #4				<u> </u>
EVENT TRIGGER #5				<u> </u>
EVENT TRIGGER #6				<u> </u>
EVENT TRIGGER #7				
DISCRETE INPUT #1				<u> </u>
DISCRETE INPUT #2				<u> </u>
DISCRETE INPUT #3				<u> </u>
NETWORK INPUT			Recommended	<u> </u>

RELAY OUTPUT 2

Event/Alarm/IMPACC	Category	Res	et Types	<u>Autom</u>	atic R	elease	<u>e Time</u>
		(Manual)	(Automatic)				
NOT USED		No	Further Selection R	Required			
EVENT TRIGGER #1							
EVENT TRIGGER #2							
EVENT TRIGGER #3							
EVENT TRIGGER #4							
EVENT TRIGGER #5							
EVENT TRIGGER #6							
EVENT TRIGGER #7							
DISCRETE INPUT #1							
DISCRETE INPUT #2							
DISCRETE INPUT #3							
NETWORK INPUT			Recommended	<u> </u>	0	0	0

Event/Alarm/IMPACC	Category	Res	set Types	Autom	atic R	lelease	<u>e Time</u>
	_	(Manual)	(Automatic)				
NOT USED		No	Further Selection Re	quired			
EVENT TRIGGER #1							
EVENT TRIGGER #2							
EVENT TRIGGER #3							
EVENT TRIGGER #4						<u> </u>	
EVENT TRIGGER #5						<u> </u>	
EVENT TRIGGER #6						. <u> </u>	
EVENT TRIGGER #7						<u> </u>	
DISCRETE INPUT #1						<u> </u>	
DISCRETE INPUT #2							
DISCRETE INPUT #3							
NETWORK INPUT			(Recommended)	0	0	0	_0_
		RELAY	OUTPUT 1				
Event/Alarm/IMPACC	Category	Res	set Types	Autom	atic R	elease	<u>e Time</u>
		(Manual)	(Automatic)				
NOT USED		No	Further Selection Re	quired			
EVENT TRIGGER #1							
EVENT TRIGGER #2							
EVENT TRIGGER #3							
EVENT TRIGGER #4							
EVENT TRIGGER #5						. <u> </u>	
EVENT TRIGGER #6							
EVENT TRIGGER #7							
DISCRETE INPUT #1							
DISCRETE INPUT #2						. <u> </u>	
DISCRETE INPUT #3							

RELAY OUTPUT 3

Note: Programming is complete upon completion of Step 7 for any Relay Output with "Event/DINPUT/Network."

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Step 8: For those Relay Outputs with "Reverse Sequence Alarm," select Manual or Automatic Reset by checking
 () the appropriate box. If Automatic Reset is checked for any Relay Output, enter the OFF Delay Setting (0-1800 seconds) in the space provided.

	Res	set Types	<u>Off Delay Setting</u> (<u>0 – 1800 Seconds</u>)
	(Manual)	(Automatic)	
🗯 RELAY OUTPUT #1 📮			
RELAY OUTPUT #2			
RELAY OUTPUT #3 📮			
RELAY OUTPUT #4 🛛			

RELAY OUTPUT PROGRAMMING COMPLETE

DEMAND SETTINGS (Reference Paragraph 5-7.4 and Figure 6-10)

(Reference r alagraph 5-1.4 and righte 5-10)

- *Note:* Both Current Demand and Power Demand Windows can be programmed. Each is programmed individually.
- Step 1: CURRENT DEMAND WINDOW Enter from 1-60 minutes Select One Step 2: POWER DEMAND WINDOW **FIXED WINDOW** SLIDING WINDOW Note: If "Fixed Window" is selected in Step 2, complete the programming with Step 3. If "Sliding Window" is selected, proceed directly to Step 4 and complete the programming with that step. Step 3: FIXED WINDOW Enter a Demand Window of 1-60 minutes Enter a Sub-Demand Interval of 1-60 minutes Step 4: SLIDING WINDOW (and) Enter Number of Intervals (1-60)

Note: The product of the "Sub-Demand Interval" times the number of intervals is the window period (1-60 minutes).

DEMAND PROGRAMMING COMPLETE

DISPLAY MANAGER SETTINGS (Reference Paragraph 5-2.3 and Figure 6-11)

Step 1: METER MENU RETURN TIME

Enter 0-15 minutes (0 = no return)

Step 2: CUSTOM SCREENS

Note: Up to 28 different parameters can be programmed to form a customized screen. Listed below are the 60 parameter possibilities plus a "Default" selection. Choosing "Default" will automatically program 28 pre-selected parameters as indicated by the bold type. An asterisk (*) is used in the display to indicate what parameters are presently programmed. To add new parameters and/or delete existing parameters, move to the specific parameter and use the F1 (SELECT) pushbutton. An asterisk will appear or disappear next to the parameter, depending upon whether the parameter is being added or deleted.

Select from 0 to 28 parameters from the list below by checking () appropriate boxes. 1 AVG CURRENT **2 GND CURRENT** 3 AVG VLL 4 SYS WATTS 5 SYS VARS G SYS VA 7 NET WATT-HOURS 8 NET VAR-HOURS 9 FREQUENCY □ 10 DISP POWER FACTOR 11 %THD IA 12 %THD VAB 13 K-FACTOR 14 PEAK SYS DMD WATTS 16 IB AMPS 17 IC AMPS 18 IN AMPS □ 19 VAB VOLTS 20 VBC VOLTS 21 VCA VOLTS 22 VAN VOLTS 23 VBN VOLTS 24 VCN VOLTS 25 PEAK SYS DMD VARS 26 PEAK SYS DMD VA 27 PHASE A VA 28 PHASE B VA 29 PHASE C VA

30 PHASE A VARS 31 PHASE B VARS □ 32 PHASE C VARS 33 PHASE A WATTS □ 34 PHASE B WATTS 35 PHASE C WATTS □ 36 FORWARD WATT-HOURS □ 37 REVERSE WATT-HOURS □ 38 LEADING VAR-HOURS 39 LAGGING VAR-HOURS 40 VA-HOURS □ 41 PEAK DMD CURRENT □ 42 AVG VLN VOLTS 43 VNG VOLTS 44 DISP PF PHASE A □ 45 DISP PF PHASE B □ 46 DISP PF PHASE C □ 47 APPARENT PF PHASE A □ 48 APPARENT PF PHASE B □ 49 APPARENT PF PHASE C □ 50 APPARENT SYS PF □ 51 %THD IB □ 52 %THD IC □ 53 %THD IN 54 %THD VCA □ 55 %THD VBC 56 %THD VAN □ 57 %THD VBN □ 58 %THD VCN □ 59 THDF (CBEMA Xfmr Derating) □ 60 CREST FACTOR □ 61 THD AMPS IA □ 62 THD AMPS IB

□ 63 THD AMPS IC 64 THD AMPS IN □ 65 THD VOLTS VAB 66 THD VOLTS VBC 67 THD VOLTS VCA 68 THD VOLTS VAN G9 THD VOLTS VBN 70 THD VOLTS VCN □ 71 MIN AVG AMPS 72 MAX AVG AMPS □ 73 MIN VLL VOLTS □ 74 MAX VLL VOLTS 75 MIN VLN VOLTS □ 76 MAX VLN VOLTS □ 77 MAX IN AMPS 78 MAX IG AMPS 79 MAX VNG VOLTS 80 MAX SYS WATTS 81 MAX SYS VARS 82 MAX SYS VA 83 MIN APPARENT PF 84 MAX APPARENT PF 85 MIN DISP PF 86 MIN DISP PF 87 PRESENT DMD WATTS 88 PRESENT DMD VARS 89 PRESENT DMD VA 90 PRESENT DMD AMPS 91 TIMESTAMP (HMSMDY) 92 INPUT#1 CHANGE COUNT 93 INPUT#2 CHANGE COUNT 94 INPUT#3 CHANGE COUNT DEFAULT 28 (IN BOLD)

Startup Settings Sheet #8 Display Manager Programming (continued from previous page)

		Select One
Step 3:	SCREEN SAVER	0 = DIM 1 = Normal
Step 4:	ALARM SCREEN	ALL ALARM SCREENS NO EVENT ALARM SCREEN
Step 5:	NEUTRAL DISPLAYS	NO NEUTRAL IN DELTA ALWAYS SHOW NEUTRAL
Step 6:	DATE FORMAT	MM/DD/20YY DD/MM/20YY

Display Options⁽¹⁾

Option 1	Option 2
ALL ALARM SCREENS:	NO EVENT ALARM SCREEN: (Default)
Upon waveform capture event or alarm condition, blink the event LED and display the event timestamp and cause.	Upon waveform capture event or alarm condition, blink the event LED but do not interrupt normal display operation.
NO NEUTRAL IN DELTA: (Default)	ALWAYS SHOW NEUTRAL:
When configured for 3-phase, 3-wire operation, hide line-to-neutral voltage readings, per-phase PF, and per-phase power.	Regardless of the system configuration, display all parameters, including line-to-neutral voltage, etc. NOTE: In 3-phase, 3-wire mode, the IQ Analyzer calculates the center of the power triangle and uses it as neutral for all calculations.
MM/DD/YY FORMAT (Default)	DD/MM/YY FORMAT
Display all dates in month, day, year format. This setting does not affect communications formats.	Display all dates in day, month, year format. This setting does not affect communications formats.

DISPLAY MANAGER PROGRAMMING COMPLETE

TREND SETTINGS

(Reference Paragraph 5-11.3 and Figure 6-12)

Time Between Trends

0 minutes => every 8 line cycles 1-5039 minutes => periodic sampling 5040 minutes => one sample per triggering input for Trend1-3 or waveform event for Trend4

Trend1 Interval (0-5040)	(5)
Trend2 Interval (0-5040)	(5)
Trend3 Interval (0-5040)	(5)
Trend4 Interval (0-5040)	(0)

Maximum Memory Allocation in Percent

Trend1 Allocation (0-100)	(93%)
Trend2 Allocation (0-100)	(1%)
Trend3 Allocation (0-100)	(1%)
Trend4 Allocation (0-100)	(5%)

Items to Trend (up to 6 items per trend) The defaults are 0 (unused) unless marked otherwise.

Trend1 Item1 Trend1 Item2 Trend1 Item3	(Default 91 Time) (Default 7 Watt-Hrs)
Trend1 Item5 Trend1 Item6	
Trend2 Item1 Trend2 Item2 Trend2 Item3 Trend2 Item4 Trend2 Item5 Trend2 Item6	
Trend3 Item1 Trend3 Item2 Trend3 Item3 Trend3 Item4 Trend3 Item5 Trend3 Item6	
Trend4 Item1 Trend4 Item2 Trend4 Item3 Trend4 Item4 Trend4 Item5 Trend4 Item6	(Default 19 VAB) (Default 20 VBC) (Default 21 VCA) (Default 22 VAN) (Default 23 VBN) (Default 24 VCN)

0 UNUSED 1 AVG CURRENT 2 GND CURRENT 3 AVG VLL 4 SYS WATTS 5 SYS VARS 6 SYS VA 7 NET WATT-HOURS (Trend1) ■ 8 NET VAR-HOURS □ 9 FREQUENCY 10 DISP POWER FACTOR □ 11 %THD IA 12 %THD VAB 13 K-FACTOR 14 PEAK SYS DMD WATTS 15 IA AMPS 16 IB AMPS 17 IC AMPS 18 IN AMPS 19 VAB VOLTS (Trend4) 20 VBC VOLTS (Trend4) 21 VCA VOLTS (Trend4) 22 VAN VOLTS (Trend4) 23 VBN VOLTS (Trend4) 24 VCN VOLTS (Trend4) 25 PEAK SYS DMD VARS 26 PEAK SYS DMD VA 27 PHASE A VA 28 PHASE B VA 29 PHASE C VA 30 PHASE A VARS 31 PHASE B VARS 32 PHASE C VARS 33 PHASE A WATTS 34 PHASE B WATTS 35 PHASE C WATTS 36 FORWARD WATT-HOURS 37 REVERSE WATT-HOURS 38 LEADING VAR-HOURS 39 LAGGING VAR-HOURS 40 VA-HOURS 41 PEAK DMD CURRENT 42 AVG VLN VOLTS 43 VNG VOLTS 44 DISP PF PHASE A 45 DISP PF PHASE B 46 DISP PF PHASE C 47 APPARENT PF PHASE A

48 APPARENT PF PHASE B 49 APPARENT PF PHASE C 50 APPARENT SYS PF □ 51 %THD IB □ 52 %THD IC 53 %THD IN 54 %THD VCA □ 55 %THD VBC 56 %THD VAN 57 %THD VBN □ 58 %THD VCN 59 THDF (CBEMA Xfmr Derating) □ 60 CREST FACTOR 61 THD AMPS IA 62 THD AMPS IB G3 THD AMPS IC 64 THD AMPS IN 65 THD VOLTS VAB 66 THD VOLTS VBC 67 THD VOLTS VCA 68 THD VOLTS VAN 69 THD VOLTS VBN 70 THD VOLTS VCN 71 MIN AVG AMPS 72 MAX AVG AMPS 73 MIN VLL VOLTS 74 MAX VLL VOLTS 75 MIN VLN VOLTS 76 MAX VLN VOLTS 77 MAX IN AMPS 78 MAX IG AMPS 79 MAX VNG VOLTS 80 MAX SYS WATTS 81 MAX SYS VARS 82 MAX SYS VA 83 MIN APPARENT PF 84 MAX APPARENT PF 85 MIN DISP PF 86 MIN DISP PF 87 PRESENT DMD WATTS 88 PRESENT DMD VARS 89 PRESENT DMD VA 90 PRESENT DMD AMPS 91 TIMESTAMP (Trend1) 92 INPUT#1 CHANGE COUNT 93 INPUT#2 CHANGE COUNT 94 INPUT#3 CHANGE COUNT

TIME OF USE SETTINGS

(Reference Paragraph 5-13.2 and Figure 6-13)

Select Holidays (up to 22 dates)

Holiday1 Month & Day	
Holiday2 Month & Day	
Holiday3 Month & Day	
Holiday4 Month & Day	
Holiday5 Month & Day	
Holiday6 Month & Day	
Holiday7 Month & Day	
Holiday8 Month & Day	
Holiday9 Month & Day	
Holiday10 Month & Day	
Holiday11 Month & Day	
Holiday12 Month & Day	
Holiday13 Month & Day	
Holiday14 Month & Day	
Holiday15 Month & Day	
Holiday16 Month & Day	
Holiday17 Month & Day	
Holiday18 Month & Day	
Holiday19 Month & Day	
Holiday20 Month & Day	
Holiday21 Month & Day	
Holiday22 Month & Day	

Seasons (up to 8 starting dates)

Season1 Month & Day	· ·
Season2 Month & Day	
Season3 Month & Day	
Season4 Month & Day	
Season5 Month & Day	
Season6 Month & Day	
Season7 Month & Day	
Season8 Month & Day	

Choose Daylight Savings Adjustment Select One

- No daylight savings adjustment
- Set present time to Standard (winter) $\hfill \Box$

Set present time to Daylight (summer)

Choose Clock Synchronization

Select One

Synchronize Clock to Line Voltage

No Clock Sync (free-running watch)

The DEFAULT MINIMUM is recommended as the starting point for schedules. There will be a single season beginning on January 1, and holidays are cleared. All schedules begin at 12AM and are preloaded with the following rates: Weekdays (Rate1), Saturdays(Rate2), Sundays(Rate3), and Holidays(Rate4).

TD 17530B

Schedule for Weekdays	in Season1
Each period has a Start	ing Time
(Hr:Min AM/PM) and Ra	ite (1-4)
TR01 <u>12 :00 AM</u>	Rate=
TR02	Rate=
TR03	Rate=
TR04	Rate=
TR05	Rate=
TR06	Rate=
TR07 :	Rate=
TR08 :	Rate=
TR09 :	Rate=
TR10 :	Rate=
Schedule for Saturdays	in Season1
Each period has a Start	ing Time
(Hr:Min AM/PM) and Ra	ite (1-4)
TR01 12 :00 AM	Rate=
TR02 :	Rate=
TR03 :	Rate=
TR04 :	Rate=
TR05 :	Rate=
TR06 :	Rate=
TR07 :	Rate=
TR08 :	Rate=
TR09 ·	Rate=
TR10 ·	Rate=
$\sim \alpha \alpha$	Second
Schedule for Sundays In	n Season1
Each period has a Start (Hr:Min AM/PM) and Ra	n Season1 ing Time ite (1-4)
Each period has a Start (Hr:Min AM/PM) and Ra	n Season1 ing Time ite (1-4) Rate=
Each period has a Start (Hr:Min AM/PM) and Ra TR01 <u>12 :00 AM</u> TR02	n Season1 ing Time ite (1-4) Rate= Rate=
Each period has a Start (Hr:Min AM/PM) and Ra TR01 <u>12 :00 AM</u> TR02 TR03	n Season1 ing Time ite (1-4) Rate= Rate= Rate=
Each period has a Start (Hr:Min AM/PM) and Ra TR01 <u>12 :00 AM</u> TR02 <u>:</u> TR03 <u>:</u> TR04 ·	n Season1 ing Time ite (1-4) Rate= Rate= Rate= Rate=
Each period has a Start (Hr:Min AM/PM) and Ra TR01 <u>12 :00 AM</u> TR02 <u>:</u> TR03 <u>:</u> TR04 <u>:</u> TR04 <u>:</u> TR05 <u>:</u>	n Season1 ing Time ite (1-4) Rate= Rate= Rate= Rate=
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Schedule for Sundays if Each period has a Start (Hr:Min AM/PM) and Ra TR01 12 :00 AM TR02 TR03 TR04 TR05 TR06	n Season1 ing Time tte (1-4) Rate= Rate= Rate= Rate= Rate= Rate= Rate=
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Schedule for Sundays if Each period has a Start (Hr:Min AM/PM) and Ra TR01 12 :00 AM TR02 TR03 TR04 TR05 TR06 TR07 TR08 TR09 TR10	Season1 ing Time ing Time Rate=
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Schedule for Sundays if Each period has a Start (Hr:Min AM/PM) and Ra TR01 12 :00 AM TR02	Season1 ing Time ing Time Rate= Rate= </td

Schedule for Weekdays in Season2

Each period has a Sta	arting Time	
(Hr:Min AM/PM) and F	Rate (1-4)	
TR01 <u>12 :00 AM</u>	Rate=	
TR02	Rate=	
TR03	Rate=	
TR04	Rate=	
TR05	Rate=	
TR06	Rate=	
TR07	Rate=	
TR08	Rate=	
IR09 <u>:</u>	Rate=	
IR10 :	Rate=	
Schedule for Saturday	s in Season	2
Each period has a Sta	arting Lime	
	Roto-	
TR01 <u>12.00 AM</u> TR02 ·	Rate=	
TR02	Rate-	
TR03	Rate=	
TR04	Rate-	
TR06 ·	Rate-	
TR00	Poto-	
TR08 ·	Rate-	
TR09 ·	Rate-	
TR10 ·	Rate-	
Schodulo for Sundava		
Schedule for Sundays	III Seasonz	
Each period has a Sta	arting Time	
Each period has a Sta (Hr:Min AM/PM) and F	arting Time Rate (1-4)	
Each period has a Sta (Hr:Min AM/PM) and F TR01 12 :00 AM	arting Time Rate (1-4) Rate=	
Each period has a Sta (Hr:Min AM/PM) and F TR01 <u>12 :00 AM</u> TR02 :	arting Time Rate (1-4) Rate= Rate=	
Each period has a Sta (Hr:Min AM/PM) and F TR01 <u>12 :00 AM</u> TR02 <u>:</u> TR03 :	arting Time Rate (1-4) Rate= _ Rate= _ Rate=	
Each period has a Sta (Hr:Min AM/PM) and F TR01 <u>12 :00 AM</u> TR02 <u>:</u> TR03 <u>:</u> TR03 <u>:</u> TR04 :	arting Time Rate (1-4) Rate= _ Rate= _ Rate= _ Rate= _	
Each period has a Sta (Hr:Min AM/PM) and F TR01 <u>12 :00 AM</u> TR02 TR03 TR03 TR04 TR05 :	arting Time Rate (1-4) Rate= _ Rate= _ Rate= _ Rate= _ Rate= _	
Each period has a Sta (Hr:Min AM/PM) and F TR01 <u>12 :00 AM</u> TR02 <u>:</u> TR03 <u>:</u> TR03 <u>:</u> TR04 <u>.</u> TR05 <u>.</u> TR06 :	arting Time Rate (1-4) Rate= Rate= Rate= Rate= Rate= Rate= Rate=	
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<u> </u>	
Schedule for Weekdays	s in Season3
Each period has a Star	ting Time
(Hr:Min AM/PM) and R	ate (1-4)
TR01 <u>12 :00 AM</u>	Rate=
TR02	Rate=
TR03	Rate=
TR04	Rate=
TR05 :	Rate=
TR06 :	Rate=
TR07 :	Rate=
TR08 ·	Rate=
TR09	Rate=
TR10 ·	Rate-
Schodulo for Schurdove	
Schedule for Saturdays	s in Seasons
(Ur:Min AM/DM) and P	ang rime
	ate (1-4)
TRU1 <u>12 :00 AM</u>	
TR02	Rate=
TR03	Rate=
IR04 <u>:</u>	Rate=
TR05	Rate=
TR06	Rate=
TR07 <u>:</u>	Rate=
TR08	Rate=
TR09 <u>:</u>	Rate=
TR10 :	Rate=
Schedule for Sundays i	in Season3
Schedule for Sundays i Each period has a Star	in Season3
Schedule for Sundays i Each period has a Star (Hr:Min AM/PM) and R	in Season3 ting Time ate (1-4)
Schedule for Sundays i Each period has a Star (Hr:Min AM/PM) and R	in Season3 ting Time ate (1-4)
Schedule for Sundays i Each period has a Star (Hr:Min AM/PM) and R TR01 <u>12</u> :00 AM	in Season3 ting Time ate (1-4) Rate=
Schedule for Sundays i Each period has a Star (Hr:Min AM/PM) and R TR01 <u>12 :00 AM</u> TR02 : TP02 :	in Season3 ting Time ate (1-4) Rate= Rate=
Schedule for Sundays i Each period has a Star (Hr:Min AM/PM) and R TR01 <u>12 :00 AM</u> TR02 <u>:</u> TR03 <u>:</u> TR03 <u>:</u>	in Season3 ting Time ate (1-4) Rate= Rate= Rate=
Schedule for Sundays i Each period has a Star (Hr:Min AM/PM) and R TR01 <u>12 :00 AM</u> TR02 : TR03 : TR03 : TR04 : TP05	in Season3 ting Time ate (1-4) Rate= Rate= Rate= Rate=
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Schedule for Sundays i Each period has a Star (Hr:Min AM/PM) and R TR01 12 :00 AM TR02	in Season3 ting Time ate (1-4) Rate=
Schedule for Sundays i Each period has a Star (Hr:Min AM/PM) and R TR01 12 :00 AM TR02	in Season3 ting Time ate (1-4) Rate= Ra
Schedule for Sundays i Each period has a Star (Hr:Min AM/PM) and R TR01 12 :00 AM TR02	In Season3 ting Time ate (1-4) Rate= Ra
Schedule for Sundays i Each period has a Star (Hr:Min AM/PM) and R TR01 12 :00 AM TR02 TR03 TR04 TR05 TR06 TR07 TR08 TR09 TR10 Schedule for Holidays i Each period has a Star (Hr:Min AM/PM) and R TR01 TR02 TR03	in Season3 ting Time ate (1-4) Rate= Ra
Schedule for Sundays i Each period has a Star (Hr:Min AM/PM) and R TR01 12 :00 AM TR02 : TR03 : TR04 : TR05 : TR06 : TR07 : TR08 : TR09 : TR10 : Schedule for Holidays i Each period has a Star (Hr:Min AM/PM) and R TR01 12 :00 AM TR02 : TR03 : TR04 : TR05 : TR06 : TR08 : TR09 : TR10 : Schedule for Holidays i Each period has a Star (Hr:Min AM/PM) and R TR01 12 :00 AM TR02 : TR03 : TR04 : TR05 : TR06 : TR07 : TR08 : TR08 : TR09 : TR09 :	in Season3 ting Time ate (1-4) Rate= Ra

 IR10
 :
 Rate=

 Schedule for Weekdays in Season4

(Hr:Min AM/PM) and	Rate (1-4)
TR01 <u>12 :00 AM</u>	Rate=
TR02	Rate=
TR03 <u>:</u>	Rate=
TR04 <u>:</u>	Rate=
TR05 <u>:</u>	Rate=
TR06 <u>:</u>	Rate=
TR07 <u>:</u>	Rate=
TR08 <u>:</u>	Rate=
TR09 <u>:</u>	Rate=
TR10 <u>:</u>	Rate=
Schedule for Saturday	s in Season4
Each period has a Sta	arting Time
(Hr:Min AM/PM) and	Rate (1-4)
TR01 <u>12 :00 AM</u>	Rate=
TR02	Rate=
TR03	Rate=
TR04 <u>:</u>	Rate=
TR05	Rate=
TR06	Rate=
TR07	Rate=
TR08 :	Rate=
TR09 :	Rate=
TR10 :	Rate=
Schedule for Sundays	in Season4
Each period has a Sta	arting Time
(Hr:Min AM/PM) and	Rate (1-4)
(Hr:Min AM/PM) and TR01 <u>12 :00 AM</u>	Rate (1-4) Rate=
(Hr:Min AM/PM) and TR01 <u>12 :00 AM</u> TR02 :	Rate (1-4) Rate= Rate=
(Hr:Min AM/PM) and TR01 <u>12 :00 AM</u> TR02 <u>:</u> TR03 :	Rate (1-4) Rate= Rate= Rate=
(Hr:Min AM/PM) and TR01 <u>12 :00 AM</u> TR02 <u>:</u> TR03 <u>:</u> TR04 :	Rate (1-4) Rate= Rate= Rate= Rate=
(Hr:Min AM/PM) and TR01 <u>12 :00 AM</u> TR02 <u>:</u> TR03 <u>:</u> TR04 <u>.</u> TR05 :	Rate (1-4) Rate= Rate= Rate= Rate= Rate=
(Hr:Min AM/PM) and TR01 <u>12 :00 AM</u> TR02 <u>:</u> TR03 <u>:</u> TR04 <u>.</u> TR05 <u>.</u> TR06 :	Rate (1-4) Rate= Rate= Rate= Rate= Rate= Rate=
(Hr:Min AM/PM) and TR01 <u>12 :00 AM</u> TR02 :: TR03 :: TR04 :: TR05 :: TR06 TR07 :	Rate (1-4) Rate= Rate= Rate= Rate= Rate= Rate= Rate= Rate=
(Hr:Min AM/PM) and TR01 12 :00 AM TR02 :	Rate (1-4) Rate= Rate= Rate= Rate= Rate= Rate= Rate= Rate= Rate=
(Hr:Min AM/PM) and TR01 12 :00 AM TR02 TR03 TR04 TR05 TR06 TR07 TR08 TR09	Rate (1-4) Rate=
(Hr:Min AM/PM) and TR01 12 :00 AM TR02 : TR03 : TR04 : TR05 : TR06 : TR07 : TR08 : TR09 : TR10 :	Rate (1-4) Rate=
(Hr:Min AM/PM) and TR01 12 :00 AM TR02	Rate (1-4) Rate=
(Hr:Min AM/PM) and TR01 12 :00 AM TR02 : TR03 : TR04 : TR05 : TR06 : TR07 : TR08 : TR09 : Schedule for Holidays Each period has a State	Rate (1-4) Rate= Rate=
(Hr:Min AM/PM) and TR01 12 :00 AM TR02	Rate (1-4) Rate= Rate=
(Hr:Min AM/PM) and TR01 12 :00 AM TR02 TR03 TR04 TR05 TR06 TR07 TR08 TR09 TR10 Schedule for Holidays Each period has a Sta (Hr:Min AM/PM) and TR01 12 :00	Rate (1-4) Rate= Rate=
(Hr:Min AM/PM) and TR01 12 :00 AM TR02 TR03 TR04 TR05 TR06 TR07 TR08 TR09 TR10 Schedule for Holidays Each period has a Sta (Hr:Min AM/PM) and TR01 12 :00 AM TR02	Rate (1-4) Rate= Rate Pate=
(Hr:Min AM/PM) and TR01 12 :00 AM TR02 TR03 TR04 TR05 TR06 TR07 TR08 TR09 TR10 Schedule for Holidays Each period has a Stat (Hr:Min AM/PM) and TR01 12 :00 TR02	Rate (1-4) Rate= Rate=
(Hr:Min AM/PM) and TR01 12 :00 AM TR02 TR03 TR04 TR05 TR06 TR07 TR08 TR09 TR10 Schedule for Holidays Each period has a Stat (Hr:Min AM/PM) and TR01 12 :00 TR02 TR03	Rate (1-4) Rate=
(Hr:Min AM/PM) and TR01 12 :00 AM TR02 TR03 TR04 TR05 TR06 TR07 TR08 TR09 TR10 Schedule for Holidays Each period has a Sta (Hr:Min AM/PM) and TR01 12 :00 TR02 TR03 TR04	Rate (1-4) Rate=
(Hr:Min AM/PM) and TR01 12 :00 AM TR02 TR03 TR04 TR05 TR06 TR07 TR08 TR09 TR09 TR09 TR09 TR09 TR09 TR09 TR09 TR01 Schedule for Holidays Each period has a Sta (Hr:Min AM/PM) and TR01 TR01 12 :00 AM TR02 TR03 TR04 TR05	Rate (1-4) Rate=
(Hr:Min AM/PM) and TR01 12 :00 AM TR02 TR03 TR04 TR05 TR06 TR07 TR08 TR09 TR10 Schedule for Holidays Each period has a Sta (Hr:Min AM/PM) and TR02 TR03 TR04 TR05 TR06	Rate (1-4) Rate=
(Hr:Min AM/PM) and TR01 12 :00 AM TR02 TR03 TR04 TR05 TR06 TR07 TR08 TR09 TR10 Schedule for Holidays Each period has a Sta (Hr:Min AM/PM) and TR01 12 :00 TR03 TR04 TR05 TR06 TR07	Rate (1-4) Rate= Rate=
(Hr:Min AM/PM) and TR01 12 :00 AM TR02 TR03 TR04 TR05 TR06 TR07 TR08 TR09 TR10 Schedule for Holidays Each period has a Sta (Hr:Min AM/PM) and TR01 12 :00 TR03 TR04 TR05 TR06 TR01 12 :00 AM TR02 TR03 TR04 TR05 TR06 TR07 TR08	Rate (1-4) Rate= Rate=
(Hr:Min AM/PM) and TR01 12 :00 AM TR02 TR03 TR04 TR05 TR06 TR07 TR08 TR09 TR10 Schedule for Holidays Each period has a Stat (Hr:Min AM/PM) and TR01 12 :00 TR02 TR03 TR04 TR05 TR01 12 :00 AM TR02 TR03 TR04 TR05 TR06 TR07 TR08 TR09	Rate (1-4) Rate=
(Hr:Min AM/PM) and TR01 12 :00 AM TR02 TR03 TR04 TR05 TR06 TR07 TR08 TR09 TR09 TR01 TR02 TR03 TR01 12 :00 AM TR02 TR01 12 :00 AM TR02 TR03 TR04 TR05 TR04 TR05 TR06 TR07 TR08 TR07 TR08 TR07 TR08 TR09 TR10	Rate (1-4) Rate=

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Schedule for Weekdays	s in Season5
Each period has a Star	ting Time
	ate (1-4)
TRUT <u>12.00 AIVI</u>	Rale=
TRUZ	Rale=
TRU3	Rale=
TR04	Rale=
TRU3	Rale=
TRU0	Rale=
TR07	Rale=
TRU0	Rale=
TR09	Rate=
IR10	
Schedule for Saturdays	s in Season5
Each period has a Star (Hr:Min AM/PM) and R	ting Time ate (1-4)
TR01 12 :00 AM	Rate=
TR02 ·	Rate=
TR03	Rate=
TR04 ·	Rate=
TR05 ·	Rate-
TR06 ·	Rate-
TR07 ·	Rate-
TR08 ·	Rate-
TR00	
TR09	
<u> </u>	
Schedule for Sundays i	n Season5
Schedule for Sundays i Each period has a Star (Hr:Min AM/PM) and R	n Season5 ting Time ate (1-4)
Schedule for Sundays i Each period has a Star (Hr:Min AM/PM) and R TR01 12 :00 AM	n Season5 ting Time ate (1-4) Rate=
Schedule for Sundays i Each period has a Star (Hr:Min AM/PM) and R TR01 <u>12 :00 AM</u> TR02	n Season5 ting Time ate (1-4) Rate= Rate=
Schedule for Sundays i Each period has a Star (Hr:Min AM/PM) and R TR01 <u>12 :00 AM</u> TR02 TR03 ·	n Season5 ting Time ate (1-4) Rate= Rate= Rate=
Schedule for Sundays i Each period has a Star (Hr:Min AM/PM) and R TR01 <u>12 :00 AM</u> TR02 <u>:</u> TR03 <u>:</u> TR03 <u>:</u>	n Season5 ting Time ate (1-4) Rate= Rate= Rate=
Schedule for Sundays i Each period has a Star (Hr:Min AM/PM) and R TR01 <u>12 :00 AM</u> TR02 <u>:</u> TR03 <u>:</u> TR03 <u>.</u> TR04 <u>:</u> TR05 :	in Season5 ting Time ate (1-4) Rate= Rate= Rate= Rate=
Schedule for Sundays i Each period has a Star (Hr:Min AM/PM) and R TR01 <u>12 :00 AM</u> TR02 <u> </u>	in Season5 ting Time ate (1-4) Rate= Rate= Rate= Rate= Rate=
Schedule for Sundays i Each period has a Star (Hr:Min AM/PM) and R TR01 <u>12 :00 AM</u> TR02 <u> </u>	n Season5 ting Time ate (1-4) Rate= Rate= Rate= Rate= Rate= Rate=
Schedule for Sundays i Each period has a Star (Hr:Min AM/PM) and R TR01 <u>12 :00 AM</u> TR02 <u>:</u> TR03 <u>:</u> TR03 <u>:</u> TR04 <u>.</u> TR05 <u>:</u> TR05 <u>:</u> TR06 <u>.</u> TR07 <u>:</u> TR07 <u>:</u> TR09 <u>:</u>	in Season5 ting Time ate (1-4) Rate= Rate= Rate= Rate= Rate= Rate= Rate= Rate=
Schedule for Sundays i Each period has a Star (Hr:Min AM/PM) and R TR01 <u>12 :00 AM</u> TR02 : TR03 : TR03 : TR04 : TR05 : TR05 : TR06 : TR06 : TR07 : TR08 : TR08 : TR08 : TR00 :	in Season5 ting Time ate (1-4) Rate= Rate= Rate= Rate= Rate= Rate= Rate= Rate= Rate=
Schedule for Sundays i Each period has a Star (Hr:Min AM/PM) and R TR01 12 :00 AM TR02	in Season5 ting Time ate (1-4) Rate= Rate= Rate= Rate= Rate= Rate= Rate= Rate= Rate= Rate= Rate=
Schedule for Sundays i Each period has a Star (Hr:Min AM/PM) and R TR01 12 :00 AM TR02 TR03 TR04 TR05 TR06 TR07 TR08 TR09	In Season5 ting Time ate (1-4) Rate= Rate= Rate= Rate= Rate= Rate= Rate= Rate= Rate= Rate=
Schedule for Sundays i Each period has a Star (Hr:Min AM/PM) and R TR01 <u>12 :00 AM</u> TR02 : TR03 : TR03 : TR04 : TR05 : TR05 : TR06 : TR06 : TR07 : TR08 : TR08 : TR09 : TR10 : Schedule for Holidays i	In Season5 ting Time ate (1-4) Rate= Rate= Rate= Rate= Rate= Rate= Rate= Rate= Rate= Rate= Rate= Rate= Rate= Rate=
Schedule for Sundays i Each period has a Star (Hr:Min AM/PM) and R TR01 <u>12 :00 AM</u> TR02 <u>:</u> TR03 <u>:</u> TR03 <u>:</u> TR04 <u>:</u> TR05 <u>:</u> TR05 <u>:</u> TR06 <u>:</u> TR06 <u>:</u> TR06 <u>:</u> TR07 <u>:</u> TR08 <u>:</u> TR08 <u>:</u> TR09 <u>:</u> TR10 <u>:</u> Schedule for Holidays i Each period has a Star	In Season5 ting Time ate (1-4) Rate=
Schedule for Sundays i Each period has a Star (Hr:Min AM/PM) and R TR01 <u>12 :00 AM</u> TR02 : TR03 : TR04 : TR05 : TR05 : TR06 : TR06 : TR07 : TR08 : TR08 : TR09 : TR09 : TR10 : Schedule for Holidays i Each period has a Star (Hr:Min AM/PM) and R	In Season5 ting Time ate (1-4) Rate=
Schedule for Sundays i Each period has a Star (Hr:Min AM/PM) and R TR01 <u>12 :00 AM</u> TR02 : TR03 : TR04 : TR05 : TR05 : TR06 : TR07 : TR08 : TR09 : TR09 : TR10 : Schedule for Holidays i Each period has a Star (Hr:Min AM/PM) and R TR01 <u>12 :00 AM</u>	In Season5 ting Time ate (1-4) Rate= Rate
Schedule for Sundays i Each period has a Star (Hr:Min AM/PM) and R TR01 <u>12 :00 AM</u> TR02 ::	In Season5 ting Time ate (1-4) Rate=
Schedule for Sundays i Each period has a Star (Hr:Min AM/PM) and R TR01 12 :00 AM TR02	In Season5 ting Time ate (1-4) Rate=
Schedule for Sundays i Each period has a Star (Hr:Min AM/PM) and R TR01 <u>12</u> :00 AM TR02 : TR03 : TR04 TR05 : TR06 : TR06 : TR07 : TR08 : TR08 : TR09 : TR10 : Schedule for Holidays i Each period has a Star (Hr:Min AM/PM) and R TR01 <u>12</u> :00 AM TR02 : TR03 :	In Season5 ting Time ate (1-4) Rate=
Schedule for Sundays i Each period has a Star (Hr:Min AM/PM) and R TR01 12 :00 AM TR02 TR03 TR04 TR05 TR06 TR07 TR08 TR09 TR10 Schedule for Holidays i Each period has a Star (Hr:Min AM/PM) and R TR01 TR01 12 :00 AM TR02	In Season5 ting Time ate (1-4) Rate=
Schedule for Sundays i Each period has a Star (Hr:Min AM/PM) and R TR01 12 :00 AM TR02	In Season5 ting Time ate (1-4) Rate=
Schedule for Sundays i Each period has a Star (Hr:Min AM/PM) and R TR01 12 :00 AM TR02	In Season5 ting Time ate (1-4) Rate=
Schedule for Sundays i Each period has a Star (Hr:Min AM/PM) and R TR01 12 :00 AM TR02	In Season5 ting Time ate (1-4) Rate=
Schedule for Sundays i Each period has a Star (Hr:Min AM/PM) and R TR01 12 :00 AM TR02 TR03 TR04 TR05 TR06 TR07 TR08 TR09 TR10 Schedule for Holidays i Each period has a Star (Hr:Min AM/PM) and R TR01 TR01 12 :00 AM TR02 TR03	In Season5 ting Time ate (1-4) Rate= Ra
Schedule for Sundays i Each period has a Star (Hr:Min AM/PM) and R TR01 12 :00 AM TR02 TR03 TR04 TR05 TR06 TR07 TR08 TR09 TR10 Schedule for Holidays i Each period has a Star (Hr:Min AM/PM) and R TR01 TR01 12 :00 AM TR02	In Season5 ting Time ate (1-4) Rate= Ra

Schedule for Weekdays in Season6

Each n				
	eriod has	s a Sta	arting Time	
(Hr:Min	AM/PM) and H	Rate (1-4)	
TR01	12:00	<u>AM</u>	Rate=	
TR02	:		Rate=	
TR03_	:		Rate=	
1R04	:		Rate=	
1R05_	:		Rate=	
TR06_	:		Rate=	
1R07_	:		Rate=	
1R08_	:		Rate=	
TR09_	:		Rate=	
IR10			Rate=	
Schedu	le for Sa	turday	s in Seaso	n6
Each p	eriod has	s a Sta	arting Time	
(Hr:Min) and H	Rate (1-4)	
	12:00	AIVI	Rate=	
			Rate=	
			Rate=	
			Rate=	
TR05			Rate=	
1R06		<u> </u>	Rate=	
	:	<u> </u>	Rate=	
			Rate=	
TR09	:		Rate=	
IR10	:	<u> </u>	Rate=	
Schedu	le for Su	indays	in Season	5
Each p	eriod has	s a Sta	arting Time	
(Hr:Min	AM/PM) and H	Rate (1-4)	
	12:00	<u>AM</u>	Rate=	
			Data	
			Rate=	
TR03	:	_	Rate= Rate=	<u> </u>
TR03 TR04	:		Rate= Rate= Rate=	
TR03 TR04 TR05	:		Rate= Rate= Rate= Rate=	
TR03 TR04 TR05 TR06			Rate= Rate= Rate= Rate=	
TR03 TR04 TR05 TR06 TR07	: : : :		Rate= Rate= Rate= Rate= Rate=	
TR03 TR04 TR05 TR06 TR07 TR08			Rate= Rate= Rate= Rate= Rate= Rate=	
TR03 TR04 TR05 TR06 TR07 TR08 TR09			Rate= Rate= Rate= Rate= Rate= Rate= Rate=	
TR03 TR04 TR05 TR06 TR07 TR08 TR09 TR10			Rate= Rate= Rate= Rate= Rate= Rate= Rate= Rate= Rate=	
TR03 TR04 TR05 TR06 TR07 TR08 TR09 TR10 Schedu	: : : : : : : : :	 	Rate= Rate= Rate= Rate= Rate= Rate= Rate= Rate= nate=	
TR03 TR04 TR05 TR06 TR07 TR08 TR09 TR09 TR10 Schedu Each pu	i i i i i i i i i i i i i i i i i i i	Diidays	Rate= Rate= Rate= Rate= Rate= Rate= Rate= Rate= rate= rate=	
TR03 TR04 TR05 TR06 TR07 TR08 TR09 TR09 TR10 Schedu Each pe (Hr:Min	i i i i i i i i i i i i i i i i i i i	Dilidays a Sta	Rate= Rate= Rate= Rate= Rate= Rate= Rate= Rate= in Seasone arting Time Rate (1-4)	 6
TR03 TR04 TR05 TR06 TR07 TR08 TR09 TR10 Schedu Each pr (Hr:Min TR01	lle for Ho eriod has AM/PM	Diidays s a Sta) and f	Rate= Rate= Rate= Rate= Rate= Rate= Rate= Rate= in Seasone arting Time Rate (1-4) Rate=	
TR03 TR04 TR05 TR05 TR07 TR07 TR08 TR09 TR10 Schedu Each po (Hr:Min TR01 TR01	lle for Ho ariod has AM/PM 12 :00	 	Rate= Rate= Rate= Rate= Rate= Rate= Rate= rin Seasone arting Time Rate (1-4) Rate= Rate=	
TR03 TR04 TR05 TR05 TR06 TR07 TR08 TR09 TR10 Schedu Each pe (Hr:Min TR01 TR02 TR03	lle for Ho eriod has AM/PM 12 :00	Diidays a Sta) and F	Rate= Rate= Rate= Rate= Rate= Rate= Rate= rate= rin Seasone arting Time Rate= Rate= Rate= Rate= Rate= Rate=	
TR03 TR04 TR05 TR06 TR07 TR08 TR09 TR10 Schedu Each pe (Hr:Min TR01 TR01 TR02 TR03 TR03 TR04	lle for Ho eriod has AM/PM 12 :00	Diidays s a Sta) and f	Rate= Rate= Rate= Rate= Rate= Rate= Rate= Rate= rin Seasone Rate= Rate= Rate= Rate= Rate= Rate= Rate=	
TR03 TR04 TR05 TR06 TR07 TR08 TR09 TR10 Schedu Each pe (Hr:Min TR01 TR01 TR02 TR03 TR04 TR05	ile for Ho eriod has AM/PM 12 :00	Diidays s a Sta) and F <u>AM</u>	Rate= Rate= Rate= Rate= Rate= Rate= Rate= Rate= in Seasone arting Time Rate (1-4) Rate= Rate= Rate= Rate= Rate= Rate= Rate=	
TR03 TR04 TR05 TR05 TR07 TR08 TR09 TR09 TR10 Schedu Each pe (Hr:Min TR01 TR01 TR02 TR03 TR04 TR05 TR06	lle for Ho eriod has AM/PM 12 :00		Rate= Rate= Rate= Rate= Rate= Rate= Rate= rin Seasone arting Time Rate (1-4) Rate= Rate= Rate= Rate= Rate= Rate= Rate= Rate=	
TR03 TR04 TR05 TR05 TR06 TR07 TR08 TR09 TR10 Schedu Each pe (Hr:Min TR01 TR01 TR02 TR03 TR04 TR05 TR05 TR06 TR07	lle for Ho eriod has AM/PM 12 :00	Didays a Sta) and f	Rate= Rate= Rate= Rate= Rate= Rate= Rate= Rate= rin Season(arting Time Rate= Rate= Rate= Rate= Rate= Rate= Rate= Rate= Rate= Rate=	
TR03 TR04 TR05 TR05 TR06 TR07 TR08 TR09 TR10 Schedu Each pu (Hr:Min TR01 TR01 TR02 TR03 TR04 TR05 TR06 TR05 TR06 TR07 TR08	lle for Ho eriod has AM/PM 12 :00	Diidays a Sta) and f	Rate= Rate= Rate= Rate= Rate= Rate= Rate= Rate= in Season arting Time Rate= Rate= Rate= Rate= Rate= Rate= Rate= Rate= Rate= Rate= Rate= Rate=	
TR03 TR04 TR05 TR06 TR07 TR08 TR09 TR10 Schedu Each pe (Hr:Min TR01 TR01 TR02 TR03 TR04 TR05 TR06 TR07 TR08 TR08	: : : : : : : : : : : : : : : : : : :	Diidays s a Sta) and f <u>AM</u>	Rate= Rate=	
TR03 TR04 TR05 TR06 TR07 TR08 TR09 TR09 TR09 TR09 TR09 TR09 TR09 TR09 TR01 TR02 TR03 TR04 TR05 TR06 TR07 TR08 TR09 TR04 TR05 TR06 TR07 TR08 TR09 TR04	: : : : : : : : : : : : : : : : : : :	Diidays s a Sta) and F <u>AM</u>	Rate= Rate= Rate= Rate= Rate= Rate= Rate= Rate= rin Seasone arting Time Rate= Rate= Rate= Rate= Rate= Rate= Rate= Rate= Rate= Rate= Rate= Rate= Rate= Rate= Rate= Rate=	

Schedule for Weekday	s in Season7
Each period has a Sta	rting Time
(Hr:Min AM/PM) and R	ate (1-4)
TR01 <u>12 :00 AM</u>	Rate=
TR02 :	Rate=
TR03 :	Rate=
TR04 ·	Rate=
TR05 ·	Rate-
TR05	Rate-
TRU0	
TR07	Rate=
IR08 <u>:</u>	Rate=
TR09 <u>:</u>	Rate=
TR10 <u>:</u>	Rate=
Schedule for Saturday	s in Season7
Each period has a Sta	rting Time
(Hr:Min AM/PM) and R	ate (1-4)
TR01 12 :00 AM	Rate=
TR02 ·	Rate=
TR03 ·	Rate=
TR04 ·	Rate-
TR04	
TRU6	
TR07	Rate=
TR08	Rate=
TR09 <u>:</u>	Rate=
TR10 ·	Rate=
Schedule for Sundays	in Season7
Schedule for Sundays Each period has a Sta	in Season7 rting Time
Schedule for Sundays Each period has a Sta (Hr:Min AM/PM) and R	in Season7 rting Time ate (1-4)
Schedule for Sundays Each period has a Sta (Hr:Min AM/PM) and R TR01 12 :00 AM	in Season7 rting Time ate (1-4) Rate=
Schedule for Sundays Each period has a Sta (Hr:Min AM/PM) and R TR01 <u>12 :00 AM</u> TR02 :	in Season7 rting Time tate (1-4) Rate= Rate=
Schedule for Sundays Each period has a Sta (Hr:Min AM/PM) and R TR01 <u>12 :00 AM</u> TR02 TR03 ·	in Season7 rting Time late (1-4) Rate= Rate= Rate=
Schedule for Sundays Each period has a Sta (Hr:Min AM/PM) and R TR01 <u>12 :00 AM</u> TR02 : TR03 : TR04	in Season7 rting Time tate (1-4) Rate= Rate= Rate= Rate=
Schedule for Sundays Each period has a Sta (Hr:Min AM/PM) and R TR01 <u>12 :00 AM</u> TR02 : TR03 : TR03 : TR04 : TP05 :	in Season7 rting Time tate (1-4) Rate= Rate= Rate= Rate= Rate=
Schedule for Sundays Each period has a Sta (Hr:Min AM/PM) and R TR01 <u>12 :00 AM</u> TR02 : TR03 : TR03 : TR04 : TR05 : TR05 : TR06 :	in Season7 rting Time tate (1-4) Rate= Rate= Rate= Rate= Rate= Rate=
Schedule for Sundays Each period has a Sta (Hr:Min AM/PM) and R TR01 12 :00 AM TR02 TR03 TR04 TR05 TR06	in Season7 rting Time tate (1-4) Rate= Rate= Rate= Rate= Rate= Rate= Rate=
Schedule for Sundays Each period has a Sta (Hr:Min AM/PM) and R TR01 <u>12 :00 AM</u> TR02 <u>:</u> TR03 <u>:</u> TR03 <u>:</u> TR04 <u>:</u> TR05 <u>:</u> TR06 <u>:</u> TR06 <u>:</u> TR07 <u>:</u>	in Season7 rting Time tate (1-4) Rate= Rate= Rate= Rate= Rate= Rate= Rate= Rate=
Schedule for Sundays Each period has a Sta (Hr:Min AM/PM) and R TR01 12 :00 AM TR02 TR03 TR04 TR05 TR06 TR07 TR08	in Season7 rting Time tate (1-4) Rate= Rate= Rate= Rate= Rate= Rate= Rate= Rate=
Schedule for Sundays Each period has a Sta (Hr:Min AM/PM) and R TR01 12 :00 AM TR02 TR03 TR04 TR05 TR06 TR08 TR09	in Season7 rting Time late (1-4) Rate= Rate= Rate= Rate= Rate= Rate= Rate= Rate= Rate= Rate= Rate=
Schedule for Sundays Each period has a Sta (Hr:Min AM/PM) and R TR01 12 :00 AM TR02	in Season7 rting Time late (1-4) Rate=
Schedule for SundaysEach period has a Sta(Hr:Min AM/PM) and RTR01 12 :00 AMTR02 :TR03 :TR04 :TR05 :TR06 :TR07 :TR08 :TR09 :TR10 :Schedule for Holidays	in Season7 rting Time late (1-4) Rate= In Season7
Schedule for SundaysEach period has a Sta(Hr:Min AM/PM) and RTR0112 :00 AMTR02:TR03:TR04:TR05:TR06:TR07:TR08:TR10:Schedule for HolidaysEach period has a Sta	in Season7 rting Time late (1-4) Rate=
Schedule for Sundays Each period has a Sta (Hr:Min AM/PM) and R TR01 12 :00 AM TR02 TR03 TR04 TR05 TR06 TR08 TR09 TR10 Schedule for Holidays Each period has a Sta (Hr:Min AM/PM) and R R	in Season7 rting Time tate (1-4) Rate=
Schedule for Sundays Each period has a Sta (Hr:Min AM/PM) and R TR01 12 :00 AM TR02 TR03 TR04 TR05 TR06 TR07 TR08 TR09 TR09 TR01 2 O AM TR04 TR05 TR06	in Season7 rting Time tate (1-4) Rate= Rate
Schedule for Sundays Each period has a Sta (Hr:Min AM/PM) and R TR01 12 :00 AM TR02 TR03 TR04 TR05 TR06 TR07 TR08 TR10 Schedule for Holidays Each period has a Sta (Hr:Min AM/PM) and R TR01 12 :00 AM TR02	in Season7 rting Time tate (1-4) Rate=
Schedule for Sundays Each period has a Sta (Hr:Min AM/PM) and R TR01 12 :00 AM TR02 TR03 TR04 TR05 TR06 TR07 TR08 TR10 Schedule for Holidays Each period has a Sta (Hr:Min AM/PM) and R TR01 TR01 12 :00 AM TR02 TR03	in Season7 rting Time tate (1-4) Rate=
Schedule for Sundays Each period has a Sta (Hr:Min AM/PM) and R TR01 12 :00 AM TR02 TR03 TR04 TR05 TR06 TR07 TR08 TR10 Schedule for Holidays Each period has a Sta (Hr:Min AM/PM) and R TR01 12 :00 AM TR02 TR03 TR03 TR03 TR04	in Season7 rting Time late (1-4) Rate=
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IR10 _____ Rate= ____ Schedule for Weekdays in Season8

	onounue	uu	
(Hr:Mir	n AM/PM)	and	Rate (1-4)
TR01	<u>12 :00</u>	<u>AM</u>	Rate=
TR02	<u> </u>		Rate=
TR03	<u> </u>		Rate=
TR04	:		Rate=
TR05	:		Rate=
TR06	:		Rate=
TR07			Rate=
TR08			Rate=
TR09	:		Rate=
TR10	:		Rate=
Sched	ule for Sa	turda	avs in Season8
Each p	eriod has	a S	tarting Time
(Hr:Mir	n AM/PM)	and	Rate (1-4)
TR01	12:00	<u>AM</u>	Rate=
TR02	:		Rate=
TR03	:		Rate=
TR04	:		Rate=
TR05	:		Rate=
TR06	:		Rate=
TR07	:		Rate=
TR08	:		Rate=
TR09	:		Rate=
TR10	:		Rate=
Sched	ule for Su	nday	
Each r	eriod has	nuay s a Si	tarting Time
Each p	period has AM/PM	a Si and	tarting Time Rate (1-4)
Each p (Hr:Mir TR01	neriod has AM/PM) 12 ·00	a Si and AM	tarting Time Rate (1-4) Rate=
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GLOSSARY

The terms and phrases contained in this Glossary are defined as used in the context of this publication, and are not intended to be all inclusive definitions. In many instances, you will be asked to refer to a specific or section for a definition and/or discussion. Some terms and/or phrases are used, but not covered in detail in any specific section. In those cases, a definition or discussion is presented in the Glossary.

Analog Input

Pages 2-3, 2-7, 4-6, 4-7, 4-20, 5-11, 6-1, 6-13, 6-15, A-4

Analog Output

Pages 2-3, 2-8, 4-6, 4-7, 4-19, 5-13, 6-1, 6-13, 6-15, A-5

Apparent Power Factor

A ratio of total real power, including harmonic component, to reactive power (Total rms watts to VA).

Analysis Mode

Page 5-18

CBEMA Factor

A transformer harmonic derating factor (THDF) defined as a pure sine wave's crest factor (1.4141) divided by the measured crest factor.

Communications Pages 2-4, 4-4, 5-11, 5-25

Communication Module Pages 2-4, 5-25

Crest Factor Ratio of peak current to rms current. A pure sine wave has a crest factor of 1.414.

Custom Screen (See Display Manager)

Demand Pages 5-24, 6-1, 6-13, 6-19, A-21

Demand Analysis Page 5-24

Discrete Input Pages 2-3, 2-7, 4-6, 4-7, 4-21, 5-11, 6-1, 6-13, 6-16, A-6

Displacement Power Factor

A ratio of fundamental (50/60 Hz) real power to apparent power (Fundamental watts to Fundamental VA).

Display

Page 3-1

Display Manager Pages 5-5, 6-13, 6-19, A22

Displayed Parameters Pages 5-1, 5-2

Dry Contact Contact not providing voltage (e.g., a pushbutton)

EPONI (Ethernet PONI) Pages 2-5, 5-25

Event Analysis Page 5-20

Excess dV/dt (IQA-6600 only) Pages 5-23, A-8

Event Log Pages 5-33

Event Triggers Pages 5-20, 5-22, 6-1, 6-13, 6-17, A-8

Flange Mounted Page 4-2

Form C Contact Standard 1 normally open and 1 normally closed contacts.

General Setup Pages 5-8, 6-1, 6-14, A-1

Graphic Screens (IQA-6600 only) Page 5-26

Harmonic Analysis Pages 5-24, 5-26

Help Mode Page 5-5

IMPACC (Integraged Metering, Protection, And Control Communications) Page 5-25 Installation

Page 4-1

Interruption (IQA-6600 only) Page 4-2

IPONI (INCOM Product Operated Network Interface)

Pages 1-2, 2-3, 2-5, 5-25

K-Factor

Page 2-13

A derating factor related to the sum of the squares of harmonic current times the squares of their harmonic numbers (multiples of the fundamental).

LEDs

Page 3-1

Maintenance

Page 7-1

Min/Max

Page 5-19

Ordering Information Page 1-5

Passwords

Page 6-2

Potential Transformer

Pages 2-4, 6-14, A-2

The IQ Analyzer assumes a 120 volt potential transformer secondary and utilizes the ratio between the primary and secondary for calculation purposes. Two conditions exist that require special consideration. These conditions are:

- 1. Line voltage is 600 volts or below and potential transformers are not used.
- 2. Potential transformer secondary voltage is not 120 volts.
- **Condition 1:** During General Setup programming the potential transformer primary must be programmed to 120 volts to yield a 1/1 (unity ratio) ratio for calculation purposes.
- **Condition 2:** If the potential transformers being used do not have 120 volt secondaries, the primary must be programmed to a voltage that will yield an equivalent ratio with 120 volts as the ratio of the actual potential transformers being applied.

Example:

Potential Transformers Potential Transformers

to be Applied Programming 220/110 240/120

240/120 Ratio 2/1

Power Supply Module

Ratio 2/1

Pages 1-5, 2-4, 4-6, 4-7

Programming Mode

Pages 3-1, 6-1

Pushbuttons

Page 3-2

Quick Start

Page 1-4

RAW

During several programming steps, the IQ Analyzer will request that a RAW # be programmed. The RAW # is an internal electronic scaling factor associated with the chip. A complete understanding of RAW # is not required. Merely change the RAW # until the programmed parameter reaches the desired value. Knowing its mathematical relationship to certain parameters, however, is useful for certain programming steps. This relationship is presented here in the form of two formulas, one for current and one for voltage.

Use the appropriate formula to determine what RAW # should be programmed to arrive at the required current or voltage setting as shown in the display. Keep in mind that the calculated RAW # should be rounded to the nearest whole number for programming. The resulting current or voltage setting in the display may not be the exact number selected. The setting will, however, be well within acceptable accuracies.

RAW # Formulas

1. When a current parameter must be determined, use the following formula:

2. When a voltage parameter must be determined, use the following formula:

RAW # = <u>Voltage Setting Required</u> (0.12)(PT Ratio)

RAW # Calculation Example

Refer to the programming example presented in Section 6 and Figure BB of the Programming Flow Chart on page 6-13. The last programming item, Demand Amps, uses a RAW # for the programming process to program 1000A. The CT ratio used in the formula was previously programmed as 1200/5. Using the current parameter formula results in the following RAW #:

RAW # = (Ampere Setting Required)(400) CT Ratio

RAW # = (1000A)(400)1200/5

RAW # = 1667 (Rounded to Nearest Whole Number)

Figure BB on page 6-13 shows the programmed RAW # of 1667 and the resultant ampere setting of 1000.24A, well within accuracy levels.

Relay Output Contacts

Pages 2-2, 2-8, 4-21, 5-16, 6-1, 6-13, 6-18, A-16

Reset Mode

Page 5-27

Saa

As defined with respect to the IQ Analyzer, a sag is an undervoltage condition lasting from 0 to 3600 cycles.

Screens Trees

Pages 5-27, 6-5, and 6-14 through 6-21

Software Pages 2-5, 5-26

Sign Conventions Page 5-3

Specifications Page 2-6

Startup Settings Sheets

(See Appendix A)

Swell

As defined with respect to the IQ Analyzer, a swell is an overvoltage condition lasting from 0 to 3600 cycles.

Sync. Pulse Input

A sync. pulse input is essentially a sensor that receives a signal from a utility company, synchronizing the IQ Analyzer with the demand window the utility billing is based on. The sync. pulse is activated by programming Discrete Input #1 for Sync. input. Refer to Figure 6-7 for the Discrete Input Screens Tree.

The sync. pulse input should be wired to contacts 13 and 14 on the IQ Analyzer as shown in Figure 4-33. When an exterior contact is closed by the utility and the circuit is completed across terminals 13 and 14, the last demand period is ended, the peak demand values are updated, and the new demand period begins in line with the utility. (See Demand.)

Time Of Use

Pages 5-34, 6-1, 6-21, A-26

Trend Data Pages 5-28, 6-1, 6-20, A-24

Triggers

(See Event Triggers)

Troubleshooting Page 7-1

Wiring

Pages 4-3, 4-8 through 4-21

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