

NEW BLOWER AND AERATION CONTROL SYSTEM - SOP

<p>ESCOR SCREEN</p>	<p>The blower control room ESCOR screen contains two menus:</p> <ul style="list-style-type: none"> - the main menu and - the general menu <p>Each menu has a number of its own specific screen.</p>
<p>MAIN MENU</p>	<p>It's the system overview screen that shows:</p> <ul style="list-style-type: none"> - number of blowers running - number of blowers off line - amps at each blower - north basin DO ppm and air flow CFM - south basin DO ppm and air flow CFM - alarm status, use to acknowledge and silence alarms <p>To access, touch main menu prompt on the screen.</p>
<p>GENERAL MENU</p>	<p>Use to select equipment/system parameters:</p> <ul style="list-style-type: none"> - maximum number of blower to run - lead blower - first lag, second lag - standby blower - lag blower delay - ramp % at start - number of scheduled periods - air flow in CFM - PLC set time <p>To access, touch general menu prompt on the screen.</p>

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CONTROL MODE	Use to select the DO control or schedule control. #1 mode is DO control: <ul style="list-style-type: none">- control the blower via PLC and basin DO hood off gas. #2 mode is schedule control: <ul style="list-style-type: none">- allows the operator to manually select and change set points and parameters.
SCHEDULE PERIOD	Set the hourly schedule (up to four per day) and total air flow to basins for each period.
PERIOD START TIME	Enter the start time (hr/min) for all scheduled periods.
MAXIMUM # OF BLOWERS	Set the maximum number of blowers to be running at any time.

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RAMP %	Set the percent (%) of air flow rate for the lag and standby blowers when they start to operate.
LEAD, LAG AND LAG DELAY	<p>Lead blower is the 1st (one of five) operating blower.</p> <p>Lag sets the 2nd blower (one of four) to start on low DO, or after the lead blower fails.</p> <p>Lag delay is the time to delay the starting of the lag blower if:</p> <ul style="list-style-type: none">- DO is low and- lead blower fails or- lead blower is at maximum flow
SET PLC TIME	<p>Enter the correct date and time on the PLC real date and time clock.</p> <p>Example: 0630 = 6:30AM</p>