

# AMMONIA SUPPLY FOR THE POWER PLANTS

## Riverside Public Utilities

**Board of Public Utilities**  
June 9, 2025

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1

## BACKGROUND

### **19% Aqueous Ammonia (Ammonia)**

1. All three City of Riverside-owned power plants utilize ammonia during gas turbine operation for emissions control
  - a. Air emissions have stringent regulatory requirements and are constantly monitored and recorded
  - b. Requires annual third-party certified emissions testing
2. Ammonia is a critical component for reducing nitrogen oxide (NOx) emissions to below the allowable limits in facility permits
3. Recognized as the Best Available Technology (BAT) for NOx reduction in gas turbines
4. Ensures compliance with environmental regulations and supports air quality protection



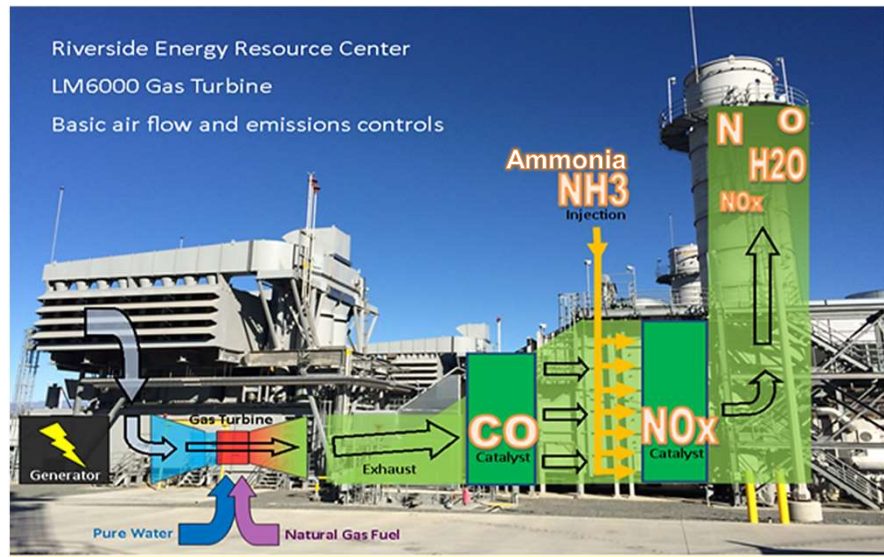
2

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2

## BACKGROUND - EMISSIONS CONTROL SYSTEM

NOx emissions  
are reduced  
from 25 ppm  
to less than  
2.5 ppm



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3

## DISCUSSION

1. Request for Bid No. 8084 posted November 25, 2024, and closed on January 14, 2025
  - a. Two bids were received
  - b. Neither met the specifications or terms outlined in the solicitation
  - c. Required to go back out to bid
2. Request for Bid No. 8164 posted on February 13, 2025, and closed on January 14, 2025, with one bid received:

| Vendor                          | Location          | Year 1     | Year 2     | Year 3     |
|---------------------------------|-------------------|------------|------------|------------|
| Airgas Specialty Products, Inc. | Lawrenceville, GA | \$1.28/gal | \$1.28/gal | \$1.33/gal |

3. Estimated total annual ammonia needs for all facilities is approximately 50,000 gallons
  - a. \$66,000 will be budgeted annually for three years for a total amount of \$198,000



4

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4

## STRATEGIC PLAN ALIGNMENT



### Strategic Priority 4 – Environmental Stewardship

Goal 4.3. Implement local and support regional proactive policies and inclusive decision-making processes to deliver environmental justice and ensure that all residents breathe healthy and clean air with the goal of having zero days of unhealthy air quality per the South Coast Air Quality District's Air Quality Index (AQI).



### Strategic Priority 5 – High Performing Government

Goal 5.4. Achieve and maintain financial health by addressing gaps between revenues and expenditures and aligning resources with strategic priorities to yield the greatest impact.



### Strategic Priority 6 – Infrastructure, Mobility & Connectivity

Goal 6.2. Maintain, protect, and improve assets and infrastructure within the City's built environment to ensure and enhance reliability, resiliency, sustainability, and facilitate connectivity.

### Cross Cutting Threads



Community Trust



Equity



Fiscal Responsibility



Innovation



Sustainability & Resiliency



5

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5

## RECOMMENDATION

That the Board of Public Utilities consider awarding Bid No. 8164 to Airgas Specialty Products, Inc. of Lawrenceville, Georgia for the purchase and delivery of 19% aqueous ammonia for the Riverside Public Utilities Power Plants for a three-year term ending on June 30, 2028, in the amount of \$198,000.



6

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6