

**ROB MEAD**  
Ingredion  
6400 Archer Avenue  
Bedford Park, IL 60501

19-5455

**EDUCATION:**

**Bachelor of Science in Chemical Engineering**

The University of Iowa, Iowa City, Iowa

**WORK EXPERIENCE:**

Environmental professional with 30 years of experience in a manufacturing setting focusing on sustainable practices such as water and energy conservation and leading sustainability activities for internal and external stakeholders; focused also on delivering innovative compliance solutions to air, water, solid and hazardous waste regulatory issues.

**Ingredion Incorporated, Bedford Park, IL**

3/09 - 2/12, *Manager Regulatory Affairs*

2/12 - 8/15, *Manager Environmental and Regulatory Affairs*

8/15 to present, Environmental Manager

*Responsibilities-Overall*

- Establish site environmental policies and procedures for 300 acre corn wet milling facility to ensure compliance to federal, state and local regulations. Plant produces food and industrial grade starches, sweeteners, feed products and refined corn oil. Plant is major source for PM, NO<sub>x</sub>, CO, SO<sub>2</sub>, VOM and HAPs. Plant has over 100 control devices, consisting of baghouses, scrubbers and oxidizers along with solid and natural gas fired boilers to provide electricity and steam for operations. Provide environmental oversight to Mapleton, IL manufacturing location.

*Accomplishments/Project Management*

- Reduced environmental permit deviations by 62% over 6 year period.
- Provided proactive approach to environmental compliance by engaging site stakeholders and striving for effective root cause and corrective action on permit deviations.
- Investigated and purchased refrigeration management software to track and produce reports for appliances that have a capacity greater than 50 lbs of an ozone depleting substance.
- Collaborated with MWRD on unique direct effluent flow measurement system approval.

*Sustainability/Community Engagement*

- Plant has robust sustainability program that includes both on and off-site activities that are aligned with Company values. Plant has raised bed gardens and donates all vegetables to a local food pantry. Over 1,500 lbs of fresh produce is harvested annually. Plant personnel also donate time to worthy causes such as Junior Achievement, STEM activities and local food pantries/soup kitchens. Plant sponsors on-site electronics recycling and document shredding, among other sustainable practices.
- President of local Bedford Park Clearing Industrial Association. Association works with local businesses and community leaders to foster open communication and address business concerns.

- Chair of Industrial, Water, Waste and Sewerage Group (IWWSG). IWWSG is a local professional environmental group that focuses on issues related to water and waste in the Greater Chicago area. The group works closely with the Metropolitan Water Reclamation District of Greater Chicago (MWRDGC) to foster open communication to address issues that are important to membership, such as user charge rates and compliance related issues.
- Manage water and carbon dioxide intensity metrics to ensure organization's goals are achieved. Engage with department managers to identify projects to reduce energy and water use. Request capital where necessary to achieve reductions. Communicate progress on plant and company goals to employees. Through my efforts, the plant has reduced water intensity by 18.7% and carbon dioxide intensity by 12.6% over the 2010 baseline.

### Regulatory Oversight

- Active member of Illinois Environmental Regulatory Group (IERG) to stay abreast of existing and future environmental rules that impact plant operations. Group engages with IEPA on a host of issues that are important to membership to ensure that future environmental standards get input from impacted members.
- Active member of Council of Industrial Boiler Operators (CIBO). This organization focuses on issues pertaining to solid and natural gas fired boilers on a national basis, among other environmental issues. Organization interacts with USEPA on rule development and engages membership to assess impacts.
- Collaborated with IEPA in 2015 on rule development for revised SO<sub>2</sub> SIP standard. Met with Agency officials to assess impact on plant operations and develop a compliance strategy.

### Permitting/Compliance

- Responsible for securing air construction permits for new and/or modified plant operations, including solid and natural gas fired boilers. Large projects entail control device review with vendors to ensure emission limitations can be met with selected technology. Work closely with IEPA to ensure construction permits contain reasonable permit terms.
- Responsible for securing POTW and NPDES permit renewals for plant operations. Work closely with Agency personnel to ensure permits contain reasonable permit terms.
- Manage Title V operating permit monitoring, record keeping and reporting obligations. Engage with department managers to ensure in-depth knowledge of compliance obligations and that there are suitable recordkeeping systems in use. Develop tools to be used by departments to aid in regulatory compliance.
- Plant has multiple NESHAP operations, including Industrial Boiler (DDDDD), Solvent Extraction (GGGG), RICE Engines (ZZZZ) and NSPS operations, including solid and natural gas boilers (Db), Coal Preparation (Y), Non-Metallic Mineral (OOO) and Gas Turbines (GG). Plant compliance programs are designed to ensure each relevant standard has high department visibility and robust record keeping. Manage continuous emission monitoring systems (CEMS) for boilers, including RATA and compliance testing.
- Establish KPIs for relevant environmental metrics to track and measure performance. Engage with site department managers to address and resolve environmental issues. Use lean six sigma tools to identify root cause(s) for non-compliance with goal of eliminating repeat events.

- Act as technical lead during inspections and enforcement proceedings. Cultivate good working relationships with Agency personnel.
- Manage daily environmental activities of plant operations, including reviewing and approving all capital expenditure requests to ensure adequate environmental permitting, managing department budget and monitoring daily sewer losses.
- Manage site SPCC Plan, which includes bulk oil containers that require periodic API-653 internal and external inspections. Site required to have Facility Response Plan (FRP) and undertakes routine table-top spill drills and deployment exercises on Chicago Sanitary and Ship Canal. Ensure elements of SPCC and FRP plans are completed.
- Complete reporting for other environmental programs such as Toxic Release Inventory (TRI), Tier II, NetDMR and Green House Gas reports using electronic reporting platforms in CDX.

**Precoat Metals division Sequa Corporation, St. Louis, MO**

5/89-10/95, *Environmental Manager*

10/95-3/09, *Director, Environmental Affairs*

*Responsibilities – Overall*

- Provided direction and leadership for environmental management system design and development for metal coil coating company with ten plants in eight states. Developed programs to assure compliance to federal, state and local regulations. Plant was major source for NOx, VOM and HAPs. Plants produced painted metal coils for use in architectural siding and roofing industry.

*Accomplishments/Project Management*

- Wrote and managed \$500,000 capital project covering the design and installation of a 100 gpm heavy metal precipitation treatment plant.
- Reduced environmental permit deviations by 43% over 5 year period.
- Identified new data historian to track and calculate oxidizer temperatures for MACT and permit compliance. Developed tools to make process adjustments to ensure no permit deviations.

*Permitting/Compliance*

- Responsible for securing air construction, POTW and NPDES permits for new and/or modified emission units for facilities located in Illinois, Indiana, Mississippi, Missouri, Pennsylvania, Texas, Maryland and Alabama. Worked closely with Agency personnel to ensure construction and/or modified permits contained reasonable permit terms.
- Managed Title V operating permit monitoring, record keeping and reporting obligations. Engaged with department managers to ensure in-depth knowledge of compliance obligations and that there were adequate recordkeeping systems in use. Develop tools to be used by departments to aid in regulatory compliance.
- Implemented ISO14001 at seven operating plants. Designated management representative for ISO program. Worked closely with sites to conduct risk assessments, develop action plans and improve compliance status.