BASIN MIXING PROJECT GUIDE

A practical checklist for a preliminary ENG Designs review

Use this guide to organize information for a basin mixing, circulation, solids-suspension, or chemical-distribution application.

START WITH WHAT YOU HAVE Complete the available items. We can identify missing information during the initial discussion.

1 Project and basin information

5 ITEMS

- ☐ Facility, project name, contact, and process area.
- ☐ Basin type and process objective.
- ☐ Plan view, sections, photographs, and available drawings.
- ☐ Length, width, depth, normal water level, and freeboard.
- ☐ Influent, effluent, recycle, baffles, bridges, mixers, and other obstructions.

2 Process and operating conditions

4 ITEMS

- ☐ Solids concentration, viscosity, temperature, and relevant wastewater or process characteristics.
- ☐ Observed operating issues: settling, dead zones, stratification, uneven chemical distribution, odors, or poor circulation.
- ☐ Existing equipment, operating sequence, and current control method.
- ☐ Required operating range and any seasonal or batch-process variation.

3 Air supply, materials, and controls

4 ITEMS

- [ ] Available air pressure, flow, compressor information, and unused capacity, if known.
- [ ] Electrical, controls, SCADA, valve, sequencing, or automation requirements.
- [ ] Material requirements, chemical exposure, corrosion concerns, and facility standards.
- [ ] Installation constraints, access requirements, outage windows, and maintenance preferences.

What happens next

Your information becomes the starting point for a project-specific discussion.

1 SEND
Share the information and files you have available.

2 REVIEW
ENG Designs reviews the available project information.

3 DEFINE
Confirm the evaluation scope, data needs, and next design steps.

READY TO START?

Send your project information

Email info@engdesignsllc.com

Web engdesignsllc.com/contact-us

USE AND LIMITATIONS

This document is provided for general information and preliminary engineering discussion. Project-specific evaluation, approved drawings, specifications, operating conditions, warranty terms, and contract documents govern. Do not use this document as a final design, material-selection, or performance guarantee.