

I PRO 302
Analysis of Water Recovery from Power Plants for Recycling
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Code of Ethics

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Overarching Standard:

We will work together in a professional and objective manner, adhering to ethical standards and existent regulations in coming up with a socially, economically and environmentally sound design that is in line with our sponsor's needs.

1st Layer - The Law:

Pressure: Team members are required to constantly come up with quick solutions to the various problems that arise during the development of the project; thus members often look up multiple sources.

Risk: Members tend to forget quoting sources or giving credit, hence causing them to unknowingly infringe on copyright laws.

Pressure: Complexity of the design plan.

Risk: U.S. environmental law may be overlooked and violated.

Canon: We shall come up with a design that adheres to Federal, State, and Local regulations, as well as cite all references with regards to the project.

2nd Layer – Contracts & Agreements:

Pressure: Time.

Risk: Not exploring new technologies, or completing a design properly.

Risk: Providing an unpractical design, overlooking environmental and economic aspects.

Pressure: To provide the best possible design solution.

Risk: Not adhering to the specifications made clear by the sponsors at the start of the project.

Canon: We shall complete our project in the best possible manner, while keeping the needs of our sponsors as our foremost priority.

3rd Layer - Professional Code of Ethics:

Pressure: Team members are required to produce substantial deliverables on a weekly basis.

Risk: Violations of IIT Academic Integrity guidelines.

Risk: Misrepresentation of reported hours.

Risk: Team members claim credit for the work of others.

Risk: Reduce the quantity/quality of testing in order to achieve minimal expected results.

Pressure: Funding.

Risk: Abusing sponsor monies.

Canon: We shall handle the project in a responsible manner, parallel with the ethical standards of being students as stated in IIT's Academic Integrity guidelines.

4th Layer - Industry Standards:

- Pressure: Team members are evaluated for their contributions to the project, and hence work on consistently producing tangible results.
- Risk: Team members produce high quantity of work, at the expense of the work's quality. For example, expansive calculations are performed, but a lot of simplifying assumptions are made, thus affecting the quality and accuracy of the calculations as a whole.
- Pressure: To abide by the industry's increasingly stringent environmental standards.
- Risk: Failing to acknowledge certain environmental impacts that could be caused by our design.
- Canon: We will strive to produce an efficient, qualitative design that exceeds the industry's environmental standards.

5th Layer – Social, Civic & Geographic Communities:

- Pressure: To come up with a low cost solution to the water recovery system.
- Risk: Overlooking the potential impacts of the design on the immediate geographical communities and the environment as a whole.
- Canon: All aspects of the project's design shall encompass social, economic and environmental considerations.

6th Layer - Personal Relationships:

- Pressure: To extract as much information as possible from industrial contacts.
- Risk: Jeopardizing personal relations with the contacts.
- Pressure: To create a transparent research system that clearly acknowledges all sources.
- Risk: Breaking the confidentiality of certain information from contacts that wish to remain anonymous.
- Pressure: Contributing ideas and opinions openly to improve project design.
- Risk: Conflict of ideas among team members that leads to misunderstanding.
- Canon: All our team members shall work in a professional and objective manner, avoiding all forms of interpersonal conflicts and resolving them if and when they occur.

7th Layer - Moral and Spiritual Values:

- Pressure: To treat all members of the project in one common direction, so as to facilitate a more efficient completion of the project.
- Risk: Creating conflicts between team members with regards to personal beliefs.
- Canon: All members of the IPRO are allowed to freely express their concerns and beliefs so a common understanding is reached on the direction of the project