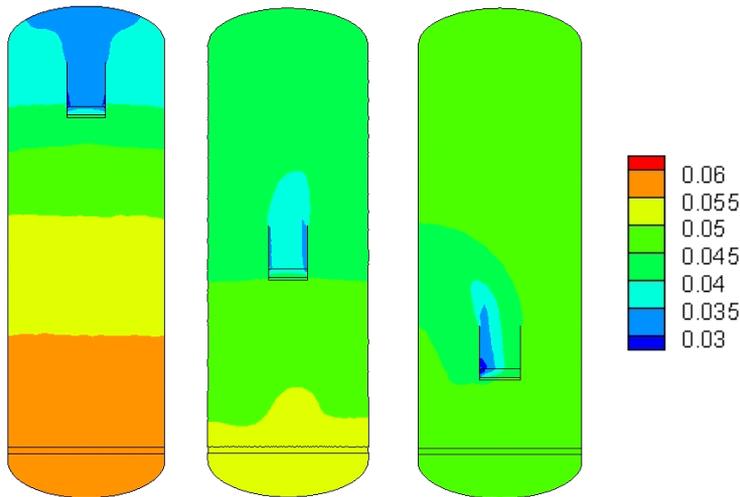


# Passive Catalytic Recombiner Device (PCRD) or Hydrogen Recombiner

- Performance Evaluation of in-house recombiners developed at BARC (from three different divisions).
- Finalization of recombiner design for deployment in PHWRs.
- Technology transfer to ECIL for large-scale recombiner production.
- Testing of ECIL recombiners.
- By using the test data suitable correlations are developed for all the PCRD, which can be used to calculate hydrogen removal rate at a given concentration.



Hydrogen Mole Fraction Contours for three different recombiner Location



Hydrogen Recombiner Test facility at Tarapur