

Cfd Analysis Of Frp Cooling Tower Ijsrd

Zhiqiang (John) Zhai



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CFD MODELING ANALYSIS OF MECHANICAL DRAFT COOLING TOWER. ,2008 Industrial processes use mechanical draft cooling towers MDCT s to dissipate waste heat by transferring heat from water to air via evaporative cooling which causes air humidification The Savannah River Site SRS has a MDCT consisting of four independent compartments called cells Each cell has its own fan to help maximize heat transfer between ambient air and circulated water The primary objective of the work is to conduct a parametric study for cooling tower performance under different fan speeds and ambient air conditions The Savannah River National Laboratory SRNL developed a computational fluid dynamics CFD model to achieve the objective The model uses three dimensional steady state momentum continuity equations air vapor species balance equation and two equation turbulence as the basic governing equations It was assumed that vapor phase is always transported by the continuous air phase with no slip velocity In this case water droplet component was considered as discrete phase for the interfacial heat and mass transfer via Lagrangian approach Thus the air vapor mixture model with discrete water droplet phase is used for the analysis A series of the modeling calculations was performed to investigate the impact of ambient and operating conditions on the thermal performance of the cooling tower when fans were operating and when they were turned off The model was benchmarked against the literature data and the SRS test results for key parameters such as air temperature and humidity at the tower exit and water temperature for given ambient conditions Detailed results will be presented here

CFD MODELING AND ANALYSIS FOR A-AREA AND H-AREA COOLING TOWERS. ,2009 Mechanical draft cooling towers are designed to cool process water via sensible and latent heat transfer to air Heat and mass transfer take place simultaneously Heat is transferred as sensible heat due to the temperature difference between liquid and gas phases and as the latent heat of the water as it evaporates Mass of water vapor is transferred due to the difference between the vapor pressure at the air liquid interface and the partial pressure of water vapor in the bulk of the air Equations to govern these phenomena are discussed here The governing equations are solved by taking a computational fluid dynamics CFD approach The purpose of the work is to develop a three dimensional CFD model to evaluate the flow patterns inside the cooling tower cell driven by cooling fan and wind considering the cooling fans to be on or off Two types of the cooling towers are considered here One is cross flow type cooling tower located in A Area and the other is counterflow type cooling tower located in H Area The cooling tower located in A Area is mechanical draft cooling tower MDCT consisting of four compartment cells as shown in Fig 1 It is 13.7m wide 36.8m long and 9.4m high Each cell has its own cooling fan and shroud without any flow communications between two adjacent cells There are water distribution decks on both sides of the fan shroud The deck floor has an array of about 25mm size holes through which water droplet falls into the cell region cooled by the ambient air driven by fan and wind and it is eventually collected in basin area As shown in Fig 1 about 0.15 m thick drift eliminator allows ambient air to be humidified through the evaporative cooling process without entrainment of water

droplets into the shroud exit The H Area cooling tower is about 7.3 m wide 29.3 m long and 9.0 m high Each cell has its own cooling fan and shroud but each of two corner cells has two panels to shield wind at the bottom of the cells There is some degree of flow communications between adjacent cells through the 9 in gap at the bottom of the tower cells as shown in Fig 2 Detailed geometrical dimensions for the H Area tower configurations are presented in the figure The model was benchmarked and verified against off site and on site test results The verified model was applied to the investigation of cooling fan and wind effects on water cooling in cells when fans are off and on This report will discuss the modeling and test results

Computational Fluid Dynamic (cfD) Simulation of Flow in Cooling Tower Amirul Hakim Bin Mohd Khalid,2017 This study was designed to focus onComputational Fluid Dynamic CFD Simulation of flow in cooling tower The use of computational fluid dynamics to predict internal and external flow has risen dramatically in the past decade The objectives of this study were to construct the grid model of cooling tower to verify the simulation grid dependency and validate the CFD modelling based on experimental results The laboratory cooling tower is a cooling tower unit from commercial air conditioning system used to study the principles of cooling tower operation The experimental result shown that the increasing of heater power will increase the temperature of cooling range in the cooling tower The grid dependency study medium was chosen because the convergence time is not too long and the rate of error for the medium mesh is inside adequate range from 7% to 20% For validation of data experimental and CFD was comparing and there are 18.48% more percentage accuracy between experiment and CFD

Finite Element Analysis of Hyperbolic Cooling Towers Seyyed Mohammed Niku,2012-12-06 The analysis of thin shells of revolution in general has always occupied an important place in the theory of structures and recently the problem of hyperbolic cooling towers has attracted many investigators due to the wide use of such shells in industry Until the early 1960 s these towers were of moderate size probably not exceeding 76m 250ft height In this range the structural safety and stability were not of primary concern because the minimum wall thickness and reinforcement were sufficient to provide the required safety It was not necessary to use very rigorous methods to analyse the problem The analysis involved the following assumptions i flexural stresses were ignored membrane theory ii The geometry of the shell was assumed to be perfect and to be idealised as a set of straight sided conical frusta and iii The boundary conditions at the base were taken to be fixed or continuously hinged with full tangential restraint

Computational Fluid Dynamics for Built and Natural Environments Zhiqiang (John) Zhai,2019-08-24 This book introduces readers to the fundamentals of simulating and analyzing built and natural environments using the Computational Fluid Dynamics CFD method CFD offers a powerful tool for dealing with various scientific and engineering problems and is widely used in diverse industries This book focuses on the most important aspects of applying CFD to the study of urban buildings and indoor and outdoor environments Following the logical procedure used to prepare a CFD simulation the book covers e.g the governing equations boundary conditions numerical methods modeling of different fluid flows and various

turbulence models Furthermore it demonstrates how CFD can be applied to solve a range of engineering problems providing detailed hands on exercises on air and water flow heat transfer and pollution dispersion problems that typically arise in the study of buildings and environments The book also includes practical guidance on analyzing and reporting CFD results as well as writing CFD reports papers Finite Element Analysis of Hyperbolic Cooling Towers Seyyed Mohammed Niku,1986-08-01

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