

## A PIONEER IN NUCLEAR ADVOCACY AND ENVIRONMENTAL STEWARDSHIP



### **ABOUT HEATHER HOFF**

Heather Hoff has a 20-year career in nuclear energy at Diablo Canyon Nuclear Power Plant where she was a reactor operator and now writes procedures for Operations. She has a materials engineering degree from California Polytechnic State University, San Luis Obispo.

She cares deeply for both the natural environment and humanity, and believes nuclear power is necessary to enable people to overcome energy poverty while also living in concert with the Earth that supports us. Along with Kristin Zaitz, she founded the non-profit organization Mothers for Nuclear in 2016, where she works to share her knowledge and experiences with people who are less comfortable with nuclear power, particularly mothers and women. They advocate for clean energy, focusing on the protection and expansion of nuclear energy around the world. Mothers for Nuclear was profiled in The New Yorker,

https://www.newyorker.com/tech/annals-oftechnology/the-activists-who-embracenuclear-power

Heather is actively involved in professional societies such as Women In Nuclear and the Association of Women in Water, Energy, and Environment. She supports her community by routinely volunteering with nuclear educational outreach, building nature trails, and native habitat restoration. Heather spends lots of time in nature, hiking, climbing, and working in the yard, and her young daughter helps inspire her passion for environmental action.

The more different kinds of people and different kinds of minds that we have thinking about all those requirements, the better and the stronger we'll be as a team. Heather Hoff is a figure in the nuclear energy industry whose story embodies resilience, innovation, and a commitment to environmental stewardship. As a materials engineer turned nuclear advocate, Hoff is also the founder of Mothers for Nuclear, a group that champions the role of nuclear energy in achieving a sustainable future. Her journey—marked by a dedication to challenging environments and transformative activism—reflects her belief in nuclear energy as a powerful tool for environmental conservation and social impact.

### Early Years and a Challenging Path in Nuclear

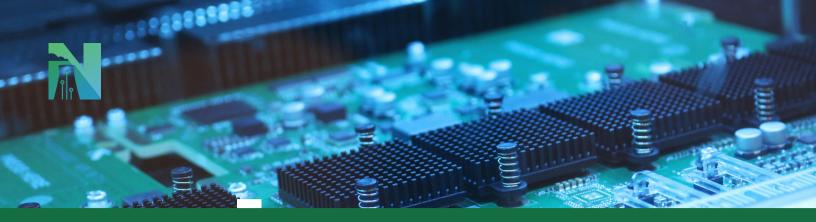
Growing up in rural Arizona, Heather's childhood was defined by resourcefulness and an ethos of environmental conservation. Influenced by her father's experimental nature and her mother's work ethic, Heather pursued engineering with a strong desire to "save the planet." Although her entry into nuclear power was met with personal skepticism and societal biases, her dedication to environmental causes led her to embrace nuclear energy as a pivotal solution for clean power generation. Heather's background in an industry dominated by men made her path even more challenging, yet she constantly pushed herself, achieving notable milestones such as earning her reactor operator license—a rare accomplishment often equated to earning an advanced degree.

### The Founding of Mothers for Nuclear

When her employer decided to prematurely close the nuclear plant, Heather's response was characteristically proactive: she co-founded Mothers for Nuclear. Driven by a belief in nuclear power's potential to contribute to a healthier planet, Heather began sharing her story to help others understand nuclear energy's role in a sustainable future. Her journey from skepticism to advocacy gave her a unique perspective that has resonated with many. Mothers for Nuclear has since become a key platform in the pro-nuclear movement, especially among demographics traditionally underrepresented in the energy conversation, like women and mothers.

### A Vision for Clean Energy and Social Impact

Throughout her career, Heather has highlighted nuclear energy's role in environmental preservation, particularly by minimizing land and resource use compared to other forms of energy. She points out that nuclear plants occupy significantly less land than renewable alternatives and, due to nuclear energy density, offer a lower ecological footprint. Heather is also passionate about re-imagining nuclear's visual identity, advocating for the use of positive, natural imagery instead of the conventional, fear-inducing symbols often associated with the industry.



# A PIONEER IN NUCLEAR ADVOCACY AND ENVIRONMENTAL STEWARDSHIP



ABOUT HOST: PHIL ZERINGUE

Phil Zeringue, Vice President of Strategic Partnerships at NuclearN, has dedicated over two decades to driving transformative growth in the nuclear industry. Renowned for his operational rigor, strategic insight, and unwavering commitment to excellence, Phil has established a reputation as a disciplined leader capable of addressing complex organizational challenges with precision and clarity.

With a career spanning engineering, maintenance, project management, and IT, Phil has cultivated a profound technical understanding of the nuclear sector. Over the years, his expertise has evolved into a visionary leadership style that leverages emerging technologies to deliver impactful and sustainable change.

Phil's ability to elevate company performance and inspire teams to transcend expectations has been a hallmark of his career. Through his structured, results-driven approach, he continues to lead initiatives that shape the future of the industry while ensuring meaningful, long-lasting success.

Great Achievement rests on effective organization, meticulous preparation, and visionary leadership

### **On AI, Innovation, and Nuclear Operations**

In her conversation with Phil Zeringue, Heather also discussed the convergence of AI and nuclear, acknowledging both the promise and the ethical complexities of using AI in a high-stakes industry. While she sees AI as an exciting innovation that can streamline operations and enhance nuclear safety, Heather is mindful of the environmental costs, such as increased energy demands. However, she believes that AI, powered by nuclear energy, can ultimately serve humanity by addressing pressing issues, including poverty and medical research, aligning with her core belief in nuclear as a tool for positive change.

#### A Hopeful Future for Nuclear Advocacy

Heather's advocacy extends beyond environmental considerations; she also emphasizes the importance of inclusivity and diversity in nuclear. She recognizes the need for diverse perspectives in nuclear operations and is particularly focused on addressing the gender gap in nuclear favorability. Heather envisions a future where nuclear energy is as celebrated as other forms of clean energy, with Mothers for Nuclear serving as a bridge between the nuclear industry and communities that may not fully understand or appreciate nuclear's benefits.

### Conclusion

Heather Hoff's journey in the nuclear industry exemplifies courage, innovation, and resilience. Through Mothers for Nuclear, she is reshaping public perception, inspiring the next generation, and advocating for nuclear energy's role in a sustainable and equitable future. Heather's story serves as a powerful reminder of how dedication to a cause and an openness to change can drive impactful solutions for humanity and the planet.

"Nuclear became my hope for the future, my hope for humanity on this planet... We need to celebrate our nuclear plants and see them as a positive, beautiful source of clean energy."