



air pollution control district
SANTA BARBARA COUNTY

MEMORANDUM

TO: Hearing Board Nominating Committee:

- Das Williams
- Paula Perotte
- Joan Hartmann
- Bob Nelson
- Alice Patino

FROM: Lorena Saldana, Executive Assistant/Board Clerk, (805) 979-8282

DATE: June 15, 2023

SUBJECT: District Hearing Board Interviews for the Engineer Representative Position

At the May 18, 2023 meeting of the Hearing Board Nominating Committee, the District provided an update on the recruitment efforts to fill the upcoming engineer position vacancy. The committee was informed that interviews for the engineer representative position on the District Hearing Board were to be scheduled following the June 15, 2023 regular APCD Board of Directors meeting. The regular Board of Directors meeting is expected to adjourn at approximately 2:00 p.m, and nominating committee members should anticipate remaining for these interviews until approximately 3:00 p.m.

After advertising for the position in the newspaper, sending out a press release and notifying local professional agencies, engineer groups at UC Santa Barbara and California Polytechnic State University San Luis Obispo, and all District Board, Hearing Board and Community Advisory Council members, we received four applications for the vacant engineer position; however only three applicants are practicing engineers and one of the three is a registered, professional engineer. Due to the size of our District, if a recruitment for this specified position yields no qualified applicants, Health and Safety Code §40802 allows appointment of a public representative in its place.

Attached for your review and consideration are copies of the three engineer applications received (personal information redacted). Each candidate will be given approximately 15 minutes to interview, and then your committee may deliberate. If your committee finds a suitable candidate for the vacant engineer position, you can recommend appointment for the APCD Board of Directors' consideration. In the event no candidates are selected, the recruitment may be expanded to

Aeron Arlin Genet, Air Pollution Control Officer

consider the one existing, non-engineer, public applicant and/or reopened for additional candidates.

BACKGROUND:

The District Hearing Board meets when cases are to be heard on the first Wednesday of each month at 9:30 am in the Board of Supervisors' Hearing Room in either Santa Barbara or Santa Maria. Most meetings are completed by noon. On average, the Hearing Board meets about two times per year for approximately one hour. Members may also be called upon to hear short-term variances as they arise.

Hearing Board actions on Emergency or Interim Variances can frequently be completed by a single member over the telephone or video conference. 90-Day Variances can be heard by a single member and are typically performed in face-to-face meetings. Regular Variances (those in effect for more than 90 days), Permit Condition Appeals, and requests for Abatement Orders must be heard by the full Hearing Board.

CONSIDERATIONS:

Hearing Board members are required to file Form 700 Conflict of Interest Forms and must recuse themselves if they have a conflict of interest in any case being heard. When considering the appointment of a Hearing Board member, it is important to keep in mind whether or not the individual has a conflict of interest by either having been employed by the company requesting the variance or by having been employed by a competitor.

ATTACHMENTS:

- A. Badaoui Mouderrres Hearing Board Application
- B. Alberto Lapuz Hearing Board Application
- C. Jonathan Cook Hearing Board Application

ATTACHMENT A

Badaoui Mouderrès Application for Hearing Board 2023

June 15, 2023

Santa Barbara County Air Pollution Control District
Hearing Board Nominating Committee

260 San Antonio Road, Suite A
Santa Barbara, California 93110

APPLICATION FOR HEARING BOARDair pollution control district
SANTA BARBARA COUNTY**Clerk of the APCD Board**
260 San Antonio Road, Suite A
Santa Barbara, CA 93110-1315**(805) 979-8050** www.ourair.org**Instructions:**

1. Read the public notice to determine if you meet the qualifications for the position.
2. An original application must be timely filed for each position.
3. Please type or print in blue or black ink.
4. Answer all questions accurately and completely. Incomplete applications may be disqualified. If additional space is needed, attach a sheet of paper.
5. Resumes are viewed as additional information and not in lieu of a completed application.
6. This application shall be maintained for a period of one year only.

Date Received:

Please indicate the Hearing Board category (or categories) for which you are applying:

☐ Attorney Member ☐ Medical Profession Member ☒ Engineer Member ☐ Public MemberNAME Mouderres Badaoui
Last First MiddleADDRESS
Street City Zip CodeCELL PHONE EMAIL BUS. PHONE HOME PHONE Are you or have you been employed by the SBCAPCD? ☒ Yes ☐ NoDepartment: EngineeringTitle: Air Quality Engineer Dates: 1999-2000Are you related to any SBCAPCD employee? ☐ Yes ☒ NoName of Relative: Relationship: Department:

The APCD Hearing Board hears and renders decisions on matters of a technical nature involving air quality. Please describe any technical experience, training, or education you have that directly relates to air quality and how it has prepared you to be an effective Hearing Board member.

B.S. in Civil Engineering
M.S. in Environmental Engineering
Improved an Air Model for Masters' thesis
Worked as a Air District Engineer
P.E. in Chemical Engineering
Wrote a couple of Air Rules
Consulted in Air Quality Permitting and Compliance
Managed Environmental Programs for over 20 years

Please explain why you are interested in serving on the APCD Hearing Board.

I am interested in serving on the APCD Hearing Board to give back to the community. I have two children (1 in college and 1 about to enter college) who need me less and less. I feel that I can add values to the APCD Hearing Board.

Please describe any experience(s) you have as a member of a Board.

I have been a member of a water utility board for 2 years.

Do you have any commitments which would prevent you from meeting the attendance requirements of the Hearing Board? If yes, please explain.

Not that I know of.

Do you work for or have a financial interest in any source regulated by the APCD? If yes, please discuss.

No, I don't. I consult from time to time for a manufacturing facility in Goleta. If they ever come up for consideration, I would be happy to recuse myself.

Please list professional, trade, or business associations held which relate to the Hearing Board category for which you are applying.

AWMA
CWEA
AWWA

List any additional information explaining your qualifications, including relevant volunteer activities, community organization memberships, accomplishments, publications, or awards. Attach additional sheets if necessary.

I won the Santa Barbara County Green Award for helping a manufacturing company to eliminate all toxic chemicals onsite.

EDUCATION

College, Business or Trade Schools Attended	Major	Degree(s) Received
Cal Poly, San Luis Obispo	Civil Engineering	B.S.
Cal Poly, San Luis Obispo	Environmental Engineering	M.S.

REFERENCES - Give names of three persons, not relatives, who have knowledge of your character, experience, community involvement, and abilities.

NAME	ADDRESS	PHONE NO.	OCCUPATION
John Mukhar			Consultant
Medi Sinaki			Senior Engineer
Nick Garza			Health and Safety Officer

I HEREBY CERTIFY THAT ALL STATEMENTS MADE IN THIS APPLICATION ARE TRUE AND COMPLETE.

APPLICANT'S SIGNATURE



DATE

05/30/2023

BADAOUI “B” MOUDERRES, P.E., QISP

Industry Professional with 20+ years of Public Works experience, personnel and program management as well as leadership experience in a cost-saving environment.

PROFESSIONAL EXPERIENCE

Technical Services & Water Quality Division Manager

(02/16 -Present)

City of Oxnard Public Works

- Manage, oversee and direct Technical Services programs under the Public Works Department (source control, storm water, cross-connection control, water quality, environmental permits, sustainability, and landfill compliance).
- Implement a \$5.4 million zero-based budget while providing financial and administrative oversight.
- Establish working plans and goals for the different groups under the division.
- Provide customer service policies to enhance the City's commitment to its citizens.
- Lend expertise when needed in issues of environmental, health, safety, and customer service.
- Support various department divisions by establishing new programs and audits.
- Coordinate department work with other city departments and outside public agencies.

Regulatory Compliance Programs Manager

(11/10 -01/16)

City of San Jose Environmental Services Department

- Manage a total of 7 employees.
- Implement a \$2.2 million zero-based budget for the division while providing financial and administrative oversight.
- Title V permitting, compliance, and reporting, Green House Gas emissions data collection, reporting, and verification.
- Incident response, root cause analysis investigation, and reporting.
- Title 13 portable equipment management, testing, registration, and database maintenance.
- Program management including scheduling, SOPs, facility audits, and continuous improvement measures.
- Provide NPDES permit compliance by outlining reporting requirements for NPDES permit term.
- Support Hazardous Materials and Safety by reviewing RMP, SPCC and Safety procedures.
- Project Manager responsible for CIP Projects CEQA and O&M projects related to regulatory compliance.

Environmental, Health and Safety Director

(07/00 – 11/10)

Various clients in Ventura & Santa Barbara Counties, CA

Providing Environmental, health and Safety Compliance Services in the following areas:

- Air Pollution Control District permitting, including Title V, recordkeeping and rule compliance.
- Land Use permitting including strict adherence to CUP conditions.
- Waste water monitoring, sampling, and compliance.
- Water Quality Control Board annual storm water report sampling and reporting.
- Hazardous waste management, hazardous waste business plans, and HazMat training.

Clients include oil and gas, power plant, industrial, manufacturing, and aerospace companies.

Special Assignments:

EHS Manager, Irwin Industries Inc., Ventura, CA

(05/09 – 09/09)

Heavy-Construction Company serving oil and gas (Exxon Mobil, PXP, and Venoco) and power plants (Reliant).

Environmental Consultant, Entrix, Ventura, CA

(08/00 – 11/03)

Providing air pollution consulting services for various energy companies (Venoco, Calpine, Reliant)

Air Quality Engineer

(05/95 – 07/00)

Ventura County and Santa Barbara County Air Pollution Control Districts, CA

Handled multiple projects as follows:

- Processed permit applications for a variety of air pollution sources.
- Performed source test review.
- Processed permit reevaluations.
- Designed the Air Toxics web page.
- Converted the Air Toxics database to Access.
- Assisted fellow employees with software applications.
- Identified all the requirements for the Title V permitting program.
- Wrote District's manual for Air Pollution Emission Factors.

SUMMARY OF QUALIFICATIONS

- Overall, 20+ years of professional experience in lending Utilities as well as Environmental, Health and Safety expertise to personnel and programs for various organizations in California.
- Manage, oversee and direct programs under environmental compliance and program management.
- Manage large number of employees.
- Implement a zero-based budget while providing financial and administrative oversight.
- Establish working plans and goals for the different groups of employees.
- Provide customer service policies to enhance agency commitment and improve image.
- Lend expertise when needed in issues of continuous improvement and customer service.
- Support various department divisions by establishing new programs and audits.
- Coordinate department work with other city departments and public agencies.
- Project Management for O&M projects related to Utilities.
- Administer storm water and wastewater programs.
- Perform internal audits and inspections as well as escort outside representatives.
- Assist in regular meetings representing City programs.
- Provide Expert Witness services when needed.
- Problem solver, mentor, natural entrepreneur, excellent communication and presentation skills, and multi-lingual.

PROFESSIONAL CERTIFICATIONS

CA Board for Professional Engineers and Land Surveyors

Professional Chemical Engineer: Certificate No. 5998

CA State Water Board

Qualified Industrial Stormwater Practitioner

State of Arizona Board of Technical Registration

Professional Environmental Engineer: Registration No. 35200

California Specialized Training Institute

Hazardous Materials Instructor: Certificate No. 2624

Solid Waste Association of North America

Certified Manager in Integrated Solid Waste Management Systems: Certificate No. 1338286

EDUCATION

Cal Poly State University, San Luis Obispo

Masters of Science - Environmental Engineering with a concentration in Management

Bachelor of Science - Civil Engineering

Additional Training

The Seven Habits for Highly Effective People

The Landmark Forum

Budget, Procurement & Contract Management Academy

Integrated Solid Waste Management

40-Hour General Site Worker

First Responder Operational

AWARDS/DISTINCTIONS

Santa Barbara County Green Award 2001 – Pacific Scientific EKD (client)

Award - Santa Barbara Scholarship Foundation, 1992

Distinctions - Graduated with Honors (MS Degree)

Chi Epsilon National Honor Society

Golden Key National Honor Society

ATTACHMENT B

Alberto Lapuz Application for Hearing Board 2023

June 15, 2023

Santa Barbara County Air Pollution Control District
Hearing Board Nominating Committee

260 San Antonio Road, Suite A
Santa Barbara, California 93110

APPLICATION FOR HEARING BOARDair pollution control district
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260 San Antonio Road, Suite A
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5. Resumes are viewed as additional information and not in lieu of a completed application.
6. This application shall be maintained for a period of one year only.

Date Received:

Please indicate the Hearing Board category (or categories) for which you are applying:

☐ Attorney Member ☐ Medical Profession Member ☐ Engineer Member ☒ Public Member

NAME LAPUZ Alberto Garcia
Last First Middle

ADDRESS
Street City Zip Code

CELL PHONE EMAIL

BUS. PHONE HOME PHONE

Are you or have you been employed by the SBCAPCD? ☐ Yes ☒ No
Department: _____
Title: _____ Dates: _____

Are you related to any SBCAPCD employee? ☐ Yes ☒ No
Name of Relative: _____
Relationship: _____ Department: _____

The APCD Hearing Board hears and renders decisions on matters of a technical nature involving air quality. Please describe any technical experience, training, or education you have that directly relates to air quality and how it has prepared you to be an effective Hearing Board member.

Starting with education, I was trained as an engineer, with B. S. and M. S. degrees in Systems Engineering from the School of Engineering at UCLA. I am particularly well versed in the chemistry, fuels, data sciences, statistics, operations research and served as a working intern for several years in the Cloud Lab at UCLA. At the Santa Barbara MTD, we continue to deploy our electric bus strategy for the South Coast, making investments in EV buses, better batteries, and facilities. Recently at JD Power & Associates, I conducted research on Electric Vehicles, covering cars, buses and trucks, on design and batteries and customer satisfaction with automotive clients in the US, Japan, Germany, China & India and with customers in Asia Pacific, Europe and North America; specifically on customer concerns on emissions, conveniences, user interface and costs. I am also a minority investor in an ESG and impact investing with Point Hope Group private equity, in Southeast Asian countries, such as in ride-sharing and mobility.

Please explain why you are interested in serving on the APCD Hearing Board.

Having lived, worked and travelled in cities where air quality has been problematic such as Los Angeles, Beijing, Shanghai, Jakarta, while having adult asthma, and recognizing the multi-faceted solutions sets to air quality challenges, I believe I can contribute and relate to the issues that members of the APCD Hearing Board would listen to. I have served in Boards before, and being a consensus builder and problem solver, I believe I would be a good team member within the APCD Hearing Board. The road ahead to clean air and lower emissions faces similar challenges I have addressed in my career, not just technical, but more importantly financial, social, demographic, partnering, media and markets.

Please describe any experience(s) you have as a member of a Board.

While I currently serve as member of the Board of the SB MTD, this application is as a member of the public. As a member of the Santa Barbara MTD, we continue to address technical, financial, community issues as we partner and support the APCD clean air goals. I also previously served as a member of the Board of the Nihon Unisys Limited, and member of the Executive Committee of this US\$ 4 Billion IT services Corporation publicly-listed at the Tokyo Stock Exchange (2003-2006), as representative of the US Unisys Corp. At Unisys, I headed the systems services business segment, to turnaround a money-losing business to the current profit and growth engine serving Japanese corporate and government clients. When I lived in San Francisco, I served on the Church-building Fund-raising Board of St Ignatius Parish Church. When I lived in Tokyo from 2003-2013, I also served on the Church-building fund raising Board for the Roppongi Catholic Church in Tokyo.

Do you have any commitments which would prevent you from meeting the attendance requirements of the Hearing Board? If yes, please explain.

No time conflicts or commitments, since the SB MTD Board meets on the first and third Tuesdays of each month. While I am a minority investor in a private equity fund in Singapore, any meetings are conducted online in the evenings. Otherwise, I consider myself semi-retired.

Do you work for or have a financial interest in any source regulated by the APCD? If yes, please discuss.

None

Please list professional, trade, or business associations held which relate to the Hearing Board category for which you are applying.

None

List any additional information explaining your qualifications, including relevant volunteer activities, community organization memberships, accomplishments, publications, or awards. Attach additional sheets if necessary.

I generally participate, when called for, in church-related events, such as fund-raising since I have had sales training and am proficient at networking in the business community. In my younger days, I volunteered for sports related community campaigns such as teaching golf, swimming, volleyball, etc. In my corporate career, with my teams, we were awarded sales achievement awards, such as with the previously known McGraw Hill Companies, now known as Standard and Poor's Global Intelligence which previously owned JD Power and Associates. As a Vice President at Charles Schwab in San Francisco, my division contributed to the annual Glide Church charitable activities in the Bay Area, such as Thanksgiving dinners, painting homes, tutoring and mentorships. Since I was a scholar at the Philippine Science High School, as a member of the charter graduating class, we have sponsored scholarship grants, science explorations, 3D printing and computer labs. I was also awarded scholarships to study in Japan, and at UCLA.

EDUCATION

College, Business or Trade Schools Attended	Major	Degree(s) Received
Anderson Business School, UCLA, California	Finance and Marketing	MBA
School of Applied Science & Engineering, UCLA	Systems Engineering	MS
School of Applied Science & Engineering, UCLA	Systems Engineering	BS
Kyoto Institute of Technology, Japan	Electronics Engineering	Assoc/Exch Student

REFERENCES - Give names of three persons, not relatives, who have knowledge of your character, experience, community involvement, and abilities.

NAME	ADDRESS	PHONE NO.	OCCUPATION
Mr Jerry Estrada	[REDACTED]	[REDACTED]	Gen Mgr
Dr David Marutschke	[REDACTED]	[REDACTED]	Assoc Prof, Osaka Univ
Dr Gerald Leong	[REDACTED]	[REDACTED]	Founder Partner

I HEREBY CERTIFY THAT ALL STATEMENTS MADE IN THIS APPLICATION ARE TRUE AND COMPLETE.

APPLICANT'S SIGNATURE

Albert H. Tzeng

DATE

May 23, 2023

Here are email addresses to use, particularly for Japan and Singapore references.

- Mr Estrada :
- Dr. Marutschke
- Dr. Leong



CV for Alberto G. Lapuz

CORE COMPETENCIES

Trusted Advisor to senior leaders at corporate clients and civic communities. Recognized mobility and transport industry Subject Matter Expert on autos, buses and trucks, energy sources, ESG impacts, customer segmentation, product sales, after sales service, fleet and inventory management, dealer network improvement and digital applications Demonstrable track record in sales growth, P&L management, financial management, profit generation, sales force motivation and mentoring, KPI performance monitoring. Significant experience integrating business operations with technology platforms & process improvement, including key account management, strategy implementation and business planning. Proficient in articulating end-to-end online & offline solution sets to C-level stakeholders and clients.

Specialty in performance improvement business turnaround. Recognized for sales excellence, sales coaching and training for science of sales, art of sales.

Fluent in several languages and worked successfully in diverse cultures.

EDUCATION

MBA in Finance and Marketing, University of California at Los Angeles (UCLA); Master's degree in Engineering in Operations Research, UCLA, California State Fellow. Bachelor's degree in Systems Engineering, UCLA; California State Scholar; Scholar, Ministry of Education, Government of Japan, study in Electronics Engineering at Kyoto University and Kyoto Institute of Technology.

CONTACT DETAILS Private email address: [REDACTED].

PROFESSIONAL HISTORY

Senior Advisor to global automotive, consulting, fintech and marketing companies, based currently in Santa Barbara and Kyoto, Japan from July 2016. Assisted German luxury brand for new product launches and dealer retail strategy and implementation. Completed pilot launch of digital sales platform for German luxury auto brand in Japan. Conducted strategy session and business planning for an emerging fintech company based in Singapore. Assisted re-launched of Tokyo operations for Research and Consulting company. Seed-started project sales and lead generation with mega Japanese corporates. Recruited account managers and project managers. Advised China operations for re-structuring and business model re-launch for the consulting and research of 2000-man WPP unit.

Vice President, Nielsen Company, was based in Hamburg, Germany and formerly in Shanghai, China 2013 to Q2 2016 as Global Client Business Partner.

Led client servicing and global account management at world and regional HQ for global clients, focusing on automotive companies, financial institutions, e-commerce companies, from US, Germany, Japan and Korea. Generated increased sales for German luxury auto brands in China.

President and Representative Director, JD Power Asia-Pacific Inc, during Standard & Poor Global corporate ownership, **Tokyo, Japan.** 2006 to 2013.

As business leader, transformed operations of JD Power in Asia Pacific into a growth and profitable enterprise, with successful turnaround of loss-making Japan operations, dramatic growth in China, India and Southeast Asia, and global operations in US and EU markets.

As Asia Pacific Regional leader, achieved doubling of revenues to \$70 Million in 5 years, and tripled EBITDA with cost reduction, higher client penetration ratios with new account management approach, and launch of high-margin consulting and bundled advisory and online tracking services.

Built consulting and business innovation business on dealer network improvement, product quality kaizen, sales and after-sales service process re-engineering, coaching and leadership training.

Managing Director and Member of Main Board and Executive Committee, Nihon Unisys, Inc 2003 to 2006 (HQ in Tokyo and listed in Tokyo Stock Exchange, total revenues at \$ 3 Billion in 2006); left when US shares were sold to Japanese JV partner; joined McGraw Hill.

As head of \$ 1 billion systems integration (SI) technology business, turned around and transformed unprofitable red projects into profitable business, so that SI now driving business growth and profitability, and higher stock valuation. Grew automotive and bank client accounts with bundled solutions with software, services with hardware, e-commerce, hosting and innovation consulting.

Vice President, Charles Schwab & Co, San Francisco HQ, Marketing and Technology Divisions, 1999-2003.

Led digital transformation of retail branch network; coordinated technology transformation for investor self-directed business model. Implemented business intelligence kiosks at branches to support financial planners and traders. Coordinated marketing activities at several levels and media to support asset-building campaigns reaching \$ 1 Trillion in Assets Under Management. Conducted due diligence for major acquisitions and assisted in integration.

Partner, Principal, Senior Associate and Associate at AT Kearney, Booz Allen and Price Waterhouse, 1991-1998. Based in New York City, Washington DC, Singapore, Tokyo and Hong Kong. Led rotation of industry practices such as automotive, telecoms and financial industries. Served major brands in these industries for strategic transformation and implementation, treasury operations, IT development, M &A integration. Note: these firms have had mergers and buy-outs of consulting units among themselves.

Senior Transit Planner, Southern California Association of Governments, Los Angeles, 1987-1990. Led major projects such as the railway and bus planning for different cities and communities in 6-county region. Coordinated funding and grant applications with federal and state funding agencies. Joint planning with environmental and clean air teams in the six-county commissions and boards.

Planner, Southern California Rapid Transit District, Los Angeles, 1983-1987. Fleet and schedule planning; prepared first computerized route optimization schedules covering operators, maintenance. Market research for passenger demand projections on different routes for bus and rail lines. Part of planning team for the initial subway lines for Los Angeles; worked on passenger demand modeling,

ATTACHMENT C

Jonathan Cook Application for Hearing Board 2023

June 15, 2023

Santa Barbara County Air Pollution Control District
Hearing Board Nominating Committee

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5. Resumes are viewed as additional information and not in lieu of a completed application.
6. This application shall be maintained for a period of one year only.

Date Received:

Please indicate the Hearing Board category (or categories) for which you are applying:

☐ Attorney Member ☐ Medical Profession Member ☐ Engineer Member ☒ Public MemberNAME _____
Cook Jonathan Don
Last First MiddleADDRESS _____
Street City Zip Code

CELL PHONE _____ EMAIL _____

BUS. PHONE N/A HOME PHONE N/AAre you or have you been employed by the SBCAPCD? ☐ Yes ☒ No

Department: _____

Title: _____ Dates: _____

Are you related to any SBCAPCD employee? ☐ Yes ☒ No

Name of Relative: _____

Relationship: _____ Department: _____

The APCD Hearing Board hears and renders decisions on matters of a technical nature involving air quality. Please describe any technical experience, training, or education you have that directly relates to air quality and how it has prepared you to be an effective Hearing Board member.

I am a chemical engineer by training and have hands-on experience working with substances impacting air quality: VOCs, halogens, and respirable dusts. Beyond my relevant work as a process engineer and knowledge of critical concepts like PEL levels, hazard classes, and protection factors, I have intimate knowledge of equipment installation and planning interfacing with corporate Environmental Health & Safety personnel, facility contractors, and vendors of abatement technology. While I am not a CA certified PE, my BS in Chemical Engineering is ABET-accredited, and I bring two additional Master's degrees.

Please explain why you are interested in serving on the APCD Hearing Board.

I am interested in serving on the APCD Hearing Board to be able to use my technical skills in a way that benefits the community and develop my own understanding of county-level planning and regulation. As a decade plus resident of the Central Coast, I also want to ensure safe clean air that myself, family, and fellow residents can enjoy while out for morning runs, evening walks, and weekend sports.

Please describe any experience(s) you have as a member of a Board.

I have minimal experience as a Board member, but in my current role regularly present to change control boards comprised of management level personnel with a variety of technical backgrounds and responsible for controlling risk to high-value products.

Do you have any commitments which would prevent you from meeting the attendance requirements of the Hearing Board? If yes, please explain.

I do not.

Do you work for or have a financial interest in any source regulated by the APCD? If yes, please discuss.

Yes, I work for Raytheon Technologies in Goleta, regulated by the APCD. I would recuse myself from voting on any related measure, although would be available for any questions if needed.

Please list professional, trade, or business associations held which relate to the Hearing Board category for which you are applying.

I am a member of Tau Beta Pi, the engineering honor society.

List any additional information explaining your qualifications, including relevant volunteer activities, community organization memberships, accomplishments, publications, or awards. Attach additional sheets if necessary.

My first role after graduating was for a local startup with ~10 employees, while I now work for a company with hundreds of local employees but over a hundred thousand global ones. That gives me a unique understanding of the challenges each organization has and how effective regulatory understanding can improve outcomes for both the local area, but also for the company, by providing expert references (such as the use of EPA's CAMEO to model potential risk) and my own natural curiosity and love of learning to discover what obstacles exist and what data is needed to reduce or eliminate risk. I am an author on several published patents, and am very interested!

EDUCATION

College, Business or Trade Schools Attended	Major	Degree(s) Received
University of California, Santa Barbara	Chemical Engineering	BS
University of California, Santa Barbara	Material Science	MS
Purdue University	Global Supply Chain Management	MS

REFERENCES - Give names of three persons, not relatives, who have knowledge of your character, experience, community involvement, and abilities.

NAME	ADDRESS	PHONE NO.	OCCUPATION
Eric Heinsohn			Facility Mngr.
Veronica Cintrón			Engr. Mngr.
Agustine Ortiz			EH&S Mngr.

I HEREBY CERTIFY THAT ALL STATEMENTS MADE IN THIS APPLICATION ARE TRUE AND COMPLETE.

APPLICANT'S SIGNATURE Jonathan D. Cook DATE 5/30/2023

Jonathan D. Cook - Process Engineer and Operations Specialist

SUMMARY

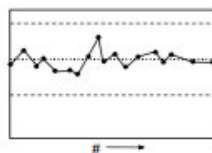
An experienced professional with a background in chemical process engineering, hands-on experience with manufacturing process scaleup and facility infrastructure, and the organizational skills needed to excel in operations management.

AREAS OF EXPERTISE



Facilities & Infrastructure

- ❑ Worked with facilities and outside contractors on equipment installation requirements and scheduling
- ❑ Generated plant wastewater flow estimates and piping diagrams with appropriate waste segregation for 30k sq ft facility
- ❑ Executed capital acquisition projects from initial specifications and proposal through installation and process validation
- ❑ Generated and reviewed P&IDs for toxic gas manifolds and supply systems, new equipment, and experimental setups



Process Engineering

- ❑ Qualified changes through process change control boards
- ❑ Performed statistical validation of metrology methods and process changes
- ❑ Utilized computational fluid dynamics to plan experiments and improve processes
- ❑ Developed wide variety of chemical processes
- ❑ Troubleshot process and tool issues, identified root causes, and requalified tools for production
- ❑ Trained technicians and engineers
- ❑ Created and updated standard operating procedures and checklists for production processes



Environmental Health & Safety

- ❑ Managed regular hazardous waste disposal and created new waste profiles
- ❑ Point of contact and author of annual reports for wastewater and air pollution agencies
- ❑ Created and led trainings for proper use of PPE and chemicals onsite
- ❑ Generated Job Hazard Analyses
- ❑ Experience with wide range of chemicals (Cl_2 , Br_2 , HF, HNO_3 , HCl, KOH, NH_3 , acetone, isopropyl alcohol, TMA, epoxies & more)
- ❑ Specified upgrades and installations for facility life safety systems



Operations Management

- ❑ Led multi-year effort to scaleup and sustain manufacturing of polycrystalline gallium nitride
- ❑ Managed manufacturing operations and direct/indirect reports to meet production targets and planned operating expenses
- ❑ Presented regular project updates to upper level management
- ❑ Generated production cost models
- ❑ Collaborated with facilities, EHS, management and engineering on equipment installations and process scaleup
- ❑ Monitored EAC for capital projects

EDUCATION

M.S. in Global Supply Chain Management, Purdue University (2021-2023)

- Coursework including Financial Management, Managerial Economics, Talent Management, Negotiations, and Manufacturing Management & Control

M.S. in Material Science, University of California at Santa Barbara (2012-2014)

- Emphasis in Electronic and Photonic Materials
- Authored report on Simulated Heat Effects in Laser-based Lighting Systems

B.S. in Chemical Engineering, University of California at Santa Barbara (2009-2013)

- Major courses in Process Control, Chemical Process Design, Thermodynamics, Statistical/Analytical/Numerical Methods, Reaction Engineering, and Physics
- Completed Engineering Honors Program and member of Tau Beta Pi

MicroMasters in Supply Chain Management, MITx (2016-2018)

- Coursework comparable to APICS CSCP certification

PROFESSIONAL EXPERIENCE

Principal Multi-Disciplined Engineer, Raytheon Technologies, Goleta, CA	<i>May 2022-Present</i>
Senior Multi-Disciplined Engineer, Raytheon Technologies, Goleta, CA	<i>July 2019-May 2022</i>
Associate Production Manager, Kyocera, Goleta, CA	<i>September 2017-July 2019</i>
Chemical Process Engineer, Soraa, Goleta, CA	<i>June 2014-September 2017</i>
Process Engineering Intern, Soraa, Goleta, CA	<i>September 2011-June 2014</i>
Research Intern, Eindhoven University of Technology, Netherlands	<i>June 2011-August 2011</i>
Department of Homeland Security Funded Research Intern, Lawrence Livermore National Laboratory, CA	<i>June 2010-September 2010</i>

PUBLICATIONS AND AWARDS

1. D. Pocius, D. Kamber, M. D'Evelyn, **J. Cook**. "Method and system for preparing polycrystalline group III metal nitride" U.S. Patent US11047041B2. Issued 6/29/2021.
2. D. Cardwell, M. D'Evelyn, **J. Cook**. "High quality group-iii metal nitride seed crystal and method of making" U.S. Patent Application US20210222317A1. Published 7/22/2021.
3. W. Jiang, M. D'Evelyn, D. Kamber, D. Ehrentraut, **J. Cook**, J. Wenger. "Improved group iii nitride substrate, method of making, and method of use" US Patent Application US20210249252A1. Published 8/12/2021.
4. M. D'Evelyn, P. von Dollen, L. Gay, D. Pocius, **J. Cook** "Ultrapure mineralizer and improved methods for nitride crystal growth". US Patent Application US20220136128A1. Published 5/5/2022.
5. W.Jiang, D. Ehrentraut, **J. Cook**, D. Kamber, R. Pakalapati, M. D'Evelyn. "Transparent, conductive bulk GaN by high temperature ammonothermal growth". Phys. Status Solidi B,. Volume 252, Number 5, 1 May 2015, pp. 1069-1074.
6. An acknowledged contributor on three papers from Soraa in the Japanese Journal of Applied Physics, Applied Physics Express, and Journal of Crystal Growth.
7. Multiple Achievement and Spot Awards received at Raytheon Technologies related to capital projects and process development.
8. RISE 2022 awardee for top 2% of engineers at Raytheon Intelligence & Space