

CITY OF NEWTON

2023 JAN 9 AM 9:02 DOCKET REQUEST FORM

**DEADLINE NOTICE: Council Rules require items to be docketed with the Clerk of the Council NO LATER THAN 7:45 P.M. ON THE MONDAY PRIOR TO A FULL COUNCIL MEETING.**

To: Clerk of the City Council

Date: 1-9-2023

From (Docketer): Council President Susan Albright

Address: \_\_\_\_\_

Phone: \_\_\_\_\_

E-mail: \_\_\_\_\_

Additional sponsors: \_\_\_\_\_

**1. Please docket the following item (it will be edited for length if necessary):**

PRESIDENT ALBRIGHT reappointing Peter J. Barrer of 60 Edincott St, Newton to the Design Review Committee for a term of office to expire on December 31, 2023.

**2. The purpose and intended outcome of this item is:**

- Fact-finding & discussion
- Appropriation, transfer,
- Expenditure, or bond authorization
- Special permit, site plan approval,
- Zone change (public hearing required)

- Ordinance change
- Resolution
- License or renewal
- Appointment confirmation
- Other: \_\_\_\_\_

**3. I recommend that this item be assigned to the following committees:**

- |   |  |  |
|---|--|--|
| <input type="checkbox"/> Programs & Services          | <input type="checkbox"/> Finance       | <input type="checkbox"/> Real Property     |
| <input type="checkbox"/> Zoning & Planning            | <input type="checkbox"/> Public Safety | <input type="checkbox"/> Special Committee |
| <input checked="" type="checkbox"/> Public Facilities | <input type="checkbox"/> Land Use      | <input type="checkbox"/> No Opinion        |

**4. This item should be taken up in committee:**

Immediately (Emergency only, please). Please state nature of emergency:

\_\_\_\_\_

- As soon as possible, preferably within a month
- In due course, at discretion of Committee Chair
- When certain materials are made available, as noted in 7 & 8 on reverse
- Following public hearing

5. I estimate that consideration of this item will require approximately:

- One half hour or less
- More than one hour
- More than one meeting
- Up to one hour
- An entire meeting
- Extended deliberation by subcommittee

6. The following people should be notified and asked to attend deliberations on this item. (Please check those with whom you have already discussed the issue, especially relevant Department Heads):

City personnel

Citizens (include telephone numbers/email please)

- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_

- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_

7. The following background materials and/or drafts should be obtained or prepared by the Clerk's office prior to scheduling this item for discussion:

8. I  have or  intend to provide additional materials and/or undertake the following research independently prior to scheduling the item for discussion. \*

(\*Note to docketer: Please provide any additional materials beyond the foregoing to the Clerk's office by 2 p.m. on Friday before the upcoming Committee meeting when the item is scheduled to be discussed so that Councilors have a chance to review all relevant materials before a scheduled discussion.)

Please check the following:

- 9.  I would like to discuss this item with the Chairman before any decision is made on how and when to proceed.
- 10.  I would like the Clerk's office to contact me to confirm that this item has been docketed. My daytime phone number is:
- 11.  I would like the Clerk's office to notify me when the Chairman has scheduled the item for discussion.

Thank you.

/s/Susan Albright  
Signature of person docketing the item

[Please retain a copy for your own records]

# Application Form

## Profile

Peter J Barrer  
First Name Middle Initial Last Name

[Redacted]  
Email Address

60 Endicott St. Suite or Apt  
Home Address  
Newton MA 02461  
City State Postal Code

### What Ward do you live in?

Ward 5

[Redacted]  
Primary Phone Alternate Phone

Retired from DMI President  
Employer Job Title

### Which Boards would you like to apply for?

Design Review Committee: Submitted

## Interests & Experiences

Please tell us about yourself and why you want to serve.

### Why are you interested in serving on a board or commission?

Want to contribute my professional experience to the City by continuing to serve on the DRC.

Barrer\_resume\_23.pdf  
Upload a Resume

**Peter J. Barrer**

**60 Endicott St.**

**Newton, MA 02461**



**Community Service**

**350Mass**

Member of leadership team of Newton Node, 2017 to present  
Representative to Statewide Legislative Team, other statewide coalitions

**City of Newton**

Member, Design Review Committee, 2005 to present, including Co-chair 2016 to 2022  
Member, Mayor's Advisory Committee on Renewable Resources, 2012 to 2015. Led initial process for Solar on Newton Schools

**Newton Conservators** Board member 2018 to present

**Friends of Ethiopian Jews** Board member 2019 to present

**Newton Community Farm**

Served on the Board since the organization's incorporation in 2005 through 2015, including Board President. Led strategic planning process and Board Affairs Committee. Led Barn renovation project; first phase of Barn stabilization included raising \$230,000 and overseeing construction completion in 2009.

**Combined Jewish Philanthropies and Jewish Community Relations Council**

Shared Society and Ethiopian Jewry Committee member from 2000 to present, Committee Chair 2005 through 2012. Led Boston area volunteer partnership in successful project to integrate Ethiopian Jews into community life in Haifa, Israel. Led annual mission/trips to Haifa to further the objectives of the project.

### ***Cooperative Metropolitan Ministries***

Served on the Board of Cooperative Metropolitan Ministries, an organization of 60 Boston area religious congregations engaging in Social Action, from 2000 to 2007 including two years as Board President.

### ***Shir Hadash religious congregation***

Various leadership positions including two years as President.

## **Professional Experience**

### ***President, Demand Management Institute, Inc. 1989 to 2005***

Peter J. Barrer founded DMI, which became a New England leader in engineering-based energy efficiency analysis and implementation of complex energy conservation programs. The firm consulted to facility owners, utility energy efficiency programs, and energy service companies regarding improvements to large and complex institutional, industrial, and commercial facilities. In 2005 Mr. Barrer sold the company to in-house staff he had mentored.

### ***Areas of Expertise***

#### **Energy analyses of planned and installed efficiency measures**

Led energy analyses of measures in over 300 facilities.

Led energy study for firm with over 100 water treatment plants.

#### **Implementation and commissioning**

Designed energy-efficient mechanical systems for process and HVAC.

Has commissioned over 50 installations of energy efficiency measures.

Evaluates the savings impact of installed efficiency measures.

### ***Selected Accomplishments***

Led chilled water system studies in high rise buildings totaling 7 million square feet.

Led four comprehensive studies of CFC chiller replacement including HVAC, lighting and process measures to reduce cooling load.

Water supply plant: Performed energy analysis and design for 24% energy cost reduction.

Led detailed "impact evaluation" of energy savings from variable speed drive installations.

Rescued troubled ice storage project through commissioning service.

Wastewater treatment plant: Performed energy analysis and design for 550,000 kWh annual reduction.

Plastics molding facility: Performed energy analysis and implementation follow-up for \$200,000 annual energy, water, and sewer cost reduction.

### ***Prior Professional Positions***

#### **Vice President, Engineering, HEC Energy Corporation 1985-1989**

Developed and managed the company's projects; recruited and trained the technical staff. Oversaw the cumulative investment of \$18 million in energy efficiency measures in institutional and commercial facilities. Areas of personnel management included engineering, project management, project financing, consultant and contractor management, client training, and facility monitoring. Energy efficiency technologies included HVAC optimization, lighting, energy management systems, electrical load management, incineration, boiler and chiller plants, water cost management, energy supply contracts, and cogeneration.

Designed and administered a system for measuring monthly energy savings at all clients.

#### **Project Manager, R. G. Vanderweil Engineers, Inc. 1979-1985**

Designed HVAC, plumbing, and electrical for new construction and renovation. Interpreted client needs to design staff, reviewed design, coordinated architecture, drawing and specification, supervised construction services, design contract, and design budget.

Responsible for approximately 40 HVAC design and energy study projects, totaling approximately 3,000,000 sq. ft. in a wide variety of facilities, including hospital, office, industrial, school, and laboratory. Selected Projects are listed below:

Cambridge Hospital	Energy study
Rutland Hospital	Engineering master plan, energy study
Whitehead Institute	100,000 s.f. new laboratory
Biogen	55,000 s.f. new laboratory and pilot plant
Arbour Hospital	80,000 s.f. new building
Harvard Medical School	10,000 s.f. new laboratory
Harvard Medical School	Energy study and retrofit
ADL Laboratories	80,000 s.f. renovation
Cabot Corporation	100,000 s.f. laboratory renovation
U. Alabama	Central chilled water plant study
BAT Bus Maintenance facility	40,000 s.f. new building
Natick High School	Energy study and retrofit
Bank of Boston	New 70,000 s.f. office building
Princeton Molecular Biology	New 110,000 s.f. laboratory
Dartmouth Medical School	80,000 s.f. laboratory renovation
United Illuminating	75,000 s.f. office and maintenance facility
Providence Court House	Energy Study

**President, South Face Energy Conservation Inc. 1977-1978.** Led firm that performed residential and light commercial audits and retrofits.

**Project Engineer, The Energy Bank 1976.** Responsible for early development of computer-based system for residential energy audits and retrofit work orders.

Work prior to 1976 included development of an experimental solar-heated methane digester, a staff analyst position with the federal EPA-predecessor agency concerning air pollution, water pollution, and solid waste programs, an assignment with a major oil company as a petroleum engineer, and summer positions assisting a structural engineer on a wastewater treatment project and building an experimental laser in a physics laboratory.

### **Professional Background**

#### ***Education and Registration***

B.S. with Distinction, Engineering Physics, Cornell University

M.S., Environmental Systems Engineering, Cornell University

Studies at Harvard University, John F. Kennedy School of Government

Massachusetts Professional Engineer Registration Number 30184 (retired)

#### ***Presentations and Papers***

“Efficiency parameters for variable frequency drives on pumps in open systems,” ACEEE Summer Study on Energy Efficiency in Industry, Saratoga Springs, NY, June 15-18, 1999.

“Energy Savings from Floating Head Pressure in Ammonia Refrigeration Systems,” National Industrial Energy Technology Conference, Houston, TX, April 22, 1998

“Compressed Air Efficiency Services in Medium Sized Manufacturers,” 1997 ACEEE Summer Study of Energy Efficiency in Industry, Saratoga Springs, NY, July 10, 1997

“Energy Savings Opportunities: A Study of the American Water System,” Annual Conference for the American Water Works Association, Toronto, June 24, 1996.

“Cost Reduction at a Wastewater Treatment Plant Through Energy Efficiency Retrofit,” The New England Water Environment Association Annual Conference, Boston, MA, January 22, 1995.

"How Demand-Side Management Saves Water Systems Money," National Drinking Water Clearinghouse, On Tap Newsletter, Volume 2, Issue 3, Summer 1993.

Instructor for Association for Energy Services Professionals course, ONTECH: Fundamentals of DSM Technologies, 1995, various locations.

"Benefits and Costs of Commissioning Complex Measures in Utility-Sponsored DSM Programs," National Conference on Building Commissioning, St. Petersburg Beach, FL, May 9, 1994.

"Demand-Side Management Electric Audits" Conference of the New England Water Works Association, Milford, MA, May 5, 1994.

"Reduce Costs by Understanding Your Electric Bill; Cost Saving Strategies for Water/Wastewater Plants," EPRI booklet, 1993.

"Before and After Monitoring of Industrial Motor and VSD Retrofits: Solutions to Measurement and Data Problems," Electric and End-Use Data Symposium, St. Louis, MO, October 27-29, 1993.

"DSM Case Studies in Water Supply and Wastewater Treatment." Duke Power Clear Water Solutions Conference, Charlotte, NC, March 10, 1993.

"Conservation Opportunities in Water Supply and Wastewater Treatment," EPRI Municipal Water & Wastewater Project Meeting, San Diego, CA, October 26, 1992.

"Electrical Conservation Opportunities in Jewelry and Plastics Industries," Energy Opportunities '91 NESEA conference, Boxborough, MA, September 24, 1991.

"Energy Efficiency Retrofit in Industry," National Association of Energy Service Companies conference, Washington, DC, November 2, 1990.

"Demand Side Management Techniques and Technologies," Power Technology Conference, Chicago, IL, November 1, 1989.

"Load Management and Chilled Water Storage," Electric Council of New England seminar for sales and marketing representatives, June 19, 1987.

"The Economics of Sizing Thermal Energy Storage Systems," Government Institutes, Inc., seminar with paper presentation, March 20, 1986.

"Energy Conservation: Out of the Drafting Room, Into the Machine Room." Heating/Piping/Air Conditioning (November 1986).

"Engineering Parameters for Safety and Energy Optimization in the Laboratory," LABCON New England 84, October 18, 1984.

"Thermal Energy Storage: Past Experience and Future Possibilities," Pennsylvania Power and Light Company 1984 Industrial and Commercial Energy Conference and Exposition, October 11, 1984.



"Crucial Factors for Design of a Pilot Plant," Bio/Technology (October 1983).

"Thermal Energy Storage and Its Applications to Industrial Facilities," Plant and Maintenance Conference, Chicago, IL, March 30, 1983.

"Inhalation Chamber System Control," Heating/Piping/Air Conditioning (May 1982).

"Chilled Water Storage Design and Experience in Two Buildings," Region V ASHRAE Conference Proceedings, August 19-21, 1982.

"Chilled Water Storage System Reduces Chiller Energy Use," Specifying Engineer (December 1979).