

Week of July 10, 2023—Tentative

There are no meetings scheduled for the week of July 10, 2023.

Week of July 17, 2023—Tentative

There are no meetings scheduled for the week of July 17, 2023.

Week of July 24, 2023—Tentative

There are no meetings scheduled for the week of July 24, 2023.

CONTACT PERSON FOR MORE INFORMATION:

For more information or to verify the status of meetings, contact Wesley Held at 301-287-3591 or via email at Wesley.Held@nrc.gov.

The NRC is holding the meetings under the authority of the Government in the Sunshine Act, 5 U.S.C. 552b.

Dated: June 14, 2023.

For the Nuclear Regulatory Commission.

Wesley W. Held,

Policy Coordinator, Office of the Secretary.

[FR Doc. 2023-13066 Filed 6-14-23; 4:15 pm]

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NUCLEAR REGULATORY COMMISSION

[Docket Nos. 50-456 and 50-457; NRC-2023-0105]

Constellation Energy Generation, LLC; Braidwood Station, Units 1 and 2

AGENCY: Nuclear Regulatory Commission.

ACTION: Environmental assessment and finding of no significant impact; issuance.

SUMMARY: The U.S. Nuclear Regulatory Commission (NRC) is considering issuance of amendments to Renewed Facility Operating License Nos. NPF-72 and NPF-77, which authorize Constellation Energy Generation, LLC, (Constellation, licensee) to operate Braidwood Station (Braidwood), Units 1 and 2. The proposed amendments would change Technical Specification (TS) Surveillance Requirement (SR) 3.7.9.2 to allow an ultimate heat sink (UHS) temperature of less than or equal to 102.8 degrees Fahrenheit (°F) from the date of issuance of the amendments through September 30, 2023.

DATES: The environmental assessment (EA) and finding of no significant impact (FONSI) referenced in this document are available on June 16, 2023.

ADDRESSES: Please refer to Docket ID NRC-2023-0105 when contacting the NRC about the availability of information regarding this document. You may obtain publicly available

information related to this document using any of the following methods:

- **Federal Rulemaking Website:** Go to <https://www.regulations.gov> and search for Docket ID NRC-2023-0105. Address questions about Docket IDs in *Regulations.gov* to Stacy Schumann; telephone: 301-415-0624; email: Stacy.Schumann@nrc.gov. For technical questions, contact the individual listed in the **FOR FURTHER INFORMATION CONTACT** section of this document.

- **NRC's Agencywide Documents Access and Management System (ADAMS):** You may obtain publicly available documents online in the ADAMS Public Documents collection at <https://www.nrc.gov/reading-rm/adams.html>. To begin the search, select "Begin Web-based ADAMS Search." For problems with ADAMS, please contact the NRC's Public Document Room (PDR) reference staff at 1-800-397-4209, 301-415-4737, or by email to PDR.Resource@nrc.gov. For the convenience of the reader, instructions about obtaining materials referenced in this document are provided in the "Availability of Documents" section.

- **NRC's PDR:** You may examine and purchase copies of public documents, by appointment, at the NRC's PDR, Room P1 B35, One White Flint North, 11555 Rockville Pike, Rockville, Maryland 20852. To make an appointment to visit the PDR, please send an email to PDR.Resource@nrc.gov or call 1-800-397-4209 or 301-415-4737, between 8 a.m. and 4 p.m. eastern time (ET), Monday through Friday, except Federal holidays.

FOR FURTHER INFORMATION CONTACT: Joel S. Wiebe, Office of Nuclear Reactor Regulation, U.S. Nuclear Regulatory Commission, Washington, DC 20555-0001, telephone: 301-415-6606; email: Joel.Wiebe@nrc.gov.

SUPPLEMENTARY INFORMATION:**I. Introduction**

The NRC is considering issuance of amendments to Renewed Facility Operating License Nos. NPF-72 and NPF-77, which authorize Constellation Energy Generation, LLC, to operate Braidwood Station, Units 1 and 2, located in Will County, Illinois. Constellation submitted its license amendment request in accordance with section 50.90 of title 10 of the *Code of Federal Regulation* (10 CFR), by letter dated March 24, 2023. If approved, the license amendments would revise TS SR 3.7.9.2 to allow a temporary increase in the allowable UHS average temperature of less than or equal to (\leq) 102.8 °F (39.3 degrees Celsius (°C)) from the date of issuance of the amendments

through September 30, 2023. Therefore, as required by 10 CFR 51.21, the NRC performed an environmental assessment (EA). Based on the results of the EA that follows, the NRC has determined not to prepare an environmental impact statement for the proposed amendments and is issuing a FONSI.

II. Environmental Assessment*Description of the Proposed Action*

The proposed action would revise the Braidwood TS to allow a temporary increase in the allowable average temperature of water withdrawn from the UHS and supplied to the plant for cooling from ≤ 102 °F (38.9 °C) to ≤ 102.8 °F (39.3 °C) from the date of issuance of the amendments through September 30, 2023. Specifically, the proposed action would revise TS SR 3.7.9.2, which currently states, "Verify average water temperature of UHS is ≤ 102.8 °F until September 30, 2022. After September 30, 2022, verify average water temperature of UHS is ≤ 102 °F" to state "Verify average water temperature of UHS is ≤ 102.8 °F until September 30, 2023. After September 30, 2023, verify average water temperature of UHS is ≤ 102 °F." Under the current TS, if the average UHS temperature as measured at the discharge of the operating essential service water system pumps is greater than 102 °F (38.9 °C), TS 3.7.9, Required Actions A.1 and A.2, would be entered concurrently and would require the licensee to place Braidwood in hot standby (Mode 3) within 12 hours and cold shutdown (Mode 5) within 36 hours. The proposed action would allow Braidwood to continue to operate during times when the UHS indicated average water temperature exceeds 102 °F (38.9 °C) but is less than or equal to 102.8 °F (39.3 °C) from the date of issuance of the amendments through September 30, 2023. The current TS's UHS average water temperature limit of 102 °F (38.9 °C) would remain applicable to all other time periods beyond September 30, 2023. The proposed action is nearly identical to previously approved license amendments that allowed for the average water temperature of the UHS to be ≤ 102.8 °F for specified periods until September 30, 2020, September 30, 2021, and September 30, 2022. The NRC issued EAs for the 2020, 2021, and 2022, UHS amendments in the **Federal Register** on September 10, 2020 (85 FR 55863), July 7, 2021 (86 FR 35831), and July 20, 2022 (87 FR 43301), respectively. The NRC issued the amendments on September 24, 2020, July 13, 2021, and August 10, 2022, respectively. The only difference

between the previously approved amendments to SR 3.7.9.2 and the proposed action is that the proposed action would replace the year with “2023.” It should also be noted that during the past 3 years, the temperature of the UHS has not exceeded 102 °F, so no cumulative effects of the previously authorized amendments need be considered. The proposed action is in accordance with the licensee’s application dated March 24, 2023.

Need for the Proposed Action

The licensee has requested the proposed amendments in connection with historical meteorological and atmospheric conditions that have resulted in the TS UHS temperature being challenged. These conditions included elevated air temperatures, high humidity, and low wind speed. Specifically, from July 4, 2020, through July 9, 2020, northern Illinois experienced high air temperatures and drought conditions, which caused sustained elevated UHS temperatures. In response to these conditions in 2020, the licensee submitted license amendment requests contained in the licensee’s letter dated July 15, 2020, as supplemented by letter dated August 14, 2020. The NRC subsequently granted the licensee’s request in September 2020. A similar request for subsequent years was granted by NRC letters dated July 13, 2021, and August 10, 2022. Constellation projects that have similar conditions are likely this year. The proposed action would provide the licensee with operational flexibility until September 30, 2023, during which period continued high UHS temperatures are likely, so that the plant shutdown criteria specified in the TS are not triggered.

Plant Site and Environs

Braidwood is in Will County, Illinois, approximately 50 miles (mi) or 80 kilometers (km) southwest of the Chicago Metropolitan Area and 20 mi (32 km) south-southwest of Joliet, IL. The Kankakee River is approximately 5 mi (8 km) east of the eastern site boundary. An onsite 2,540-acre (ac) or 1,030-hectare (ha) cooling pond provides condenser cooling. Cooling water is withdrawn from the pond through the lake screen house, which is located at the north end of the pond. Heated water returns to the cooling pond through a discharge canal west of the lake screen house intake that is separated from the intake by a dike. The pond typically holds 22,300 acre-feet (27.5 million cubic meters) of water at any given time. The cooling pond includes both “essential” and “non-

essential” areas. The essential cooling pond is the portion of the cooling pond that serves as the UHS for emergency core cooling, and it consists of a 99 ac (40-ha) excavated area of the pond directly in front of the lake screen house. The essential cooling pond’s principal functions are to dissipate residual heat after reactor shutdown and to dissipate heat after an accident. It is capable of supplying Braidwood’s cooling system with water for 30 days of station operation without additional makeup water. For clarity, use of the term “UHS” in this EA refers to the 99-ac (40-ha) essential cooling pond, and use of the term “cooling pond” or “pond” describes the entire 2,540-ac (1,030-ha) area, which includes both the essential and non-essential areas.

The cooling pond is part of the Mazonia-Braidwood State Fish and Wildlife Area, which encompasses the majority of the non-UHS area of the cooling pond as well as Illinois Department of Natural Resources (IDNR) owned lands adjacent to the Braidwood site to the south and southwest of the cooling pond. The licensee and the IDNR have jointly managed the cooling pond as part of the Mazonia-Braidwood State Fish and Wildlife Area since 1991 pursuant to a long-term lease agreement. Under the terms of the agreement, the public has access to the pond for fishing, waterfowl hunting, fossil collecting, and other recreational activities.

The cooling pond is a wastewater treatment works as defined by section 301.415 of title 35 of the Illinois Administrative Code (35 IAC 301.415). Under this definition, the cooling pond is not considered waters of the State under the Illinois Administrative Code (35 IAC 301.440) or waters of the United States under the Federal Clean Water Act (40 CFR 230.3(s)), and so the cooling pond is not subject to State water quality standards. The cooling pond can be characterized as a managed ecosystem where IDNR fish stocking and other human activities primarily influence the species composition and population dynamics.

Since the beginning of the lease agreement between the licensee and IDNR, the IDNR has stocked the cooling pond with a variety of game fish, including largemouth bass (*Micropterus salmoides*), smallmouth bass (*M. dolomieu*), blue catfish (*Ictalurus furcatus*), striped bass (*Morone saxatilis*), crappie (*Pomoxis* spp.), walleye (*Sander vitreum*), and tiger muskellunge (*Esox masquinongy x lucius*). IDNR performs annual surveys to determine which fish to stock based on fishermen preferences, fish

abundance, different species’ tolerance to warm waters, predator and prey dynamics, and other factors. Because of the warm water temperatures experienced in the summer months, introductions of warm-water species, such as largemouth bass and blue catfish, have been more successful than introductions of cool-water species, such as walleye and tiger muskellunge. Since annual surveys began in 1980, IDNR has collected 47 species in the cooling pond. In recent years, bluegill (*Lepomis macrochirus*), channel catfish (*Ictalurus punctatus*), threadfin shad (*Dorosoma petenense*), and common carp (*Cyprinus carpio*) have been among the most abundant species in the cooling pond. Gizzard shad (*Dorosoma cepedianum*), one of the most frequently affected species during periods of elevated pond temperatures, have decreased in abundance dramatically in recent years, while bluegills, which can tolerate high temperatures with relatively high survival rates, have noticeably increased in relative abundance. IDNR-stocked warm water game species, such as largemouth bass and blue catfish, continue to persist in small numbers, while cooler water stocked species, such as walleye and tiger muskellunge, no longer appear in IDNR survey collections. No Federally listed species or designated critical habitats protected under the Endangered Species Act (ESA) occur within or near the cooling pond.

The Kankakee River serves as the source of makeup water for the cooling pond. The river also receives continuous blowdown from the cooling pond. Water is withdrawn from a small river screen house located on the Kankakee River, and liquid effluents from Braidwood are discharged into the cooling pond blowdown line, which subsequently discharges into the Kankakee River.

The plant site and environs are described in greater detail in Chapter 3 of the NRC’s November 2015 Generic Environmental Impact Statement for License Renewal of Nuclear Plants: Regarding Braidwood Station, Units 1 and 2, Final Report (NUREG 1437, Supplement 55) (herein referred to as the “Braidwood FSEIS” (Final Supplemental Environment Impact Statement)). Figure 3–5 on page 3–7 of the Braidwood FSEIS depicts the Braidwood plant layout, and Figure 3–4 on page 3–6 depicts the cooling pond, including the portion of the pond that constitutes the essential cooling pond (or UHS) and the blowdown line to the Kankakee River.

Environmental Impacts of the Proposed Action

Regarding radiological impacts, the proposed action would not result in any changes in the types of radioactive effluents that may be released from the plant offsite. No significant increase in the amount of any radioactive effluent released offsite and no significant increase in occupational or public radiation exposure is expected from the proposed action. Separate from this EA, the NRC staff is evaluating the licensee's safety analyses of the potential radiological consequences of an accident that may result from the proposed action. The results of the NRC staff's safety analysis will be documented in a safety evaluation (SE). If the NRC staff concludes in the SE that all pertinent regulatory requirements related to radiological doses are met by the proposed UHS temperature limit increase, then the proposed action would result in no significant radiological impact to the environment. The NRC staff's SE will be issued with the license amendments, if approved by the NRC. If the NRC staff concludes that all pertinent regulatory requirements are not met by the proposed UHS temperature limit increase, the requested amendment would not be issued.

Regarding potential nonradiological impacts, temporarily raising the maximum allowable UHS temperature from ≤ 102 °F (38.9 °C) to ≤ 102.8 °F (39.3 °C) could cause increased cooling pond water temperatures until September 30, 2023. Because the proposed action would not affect Braidwood's licensed thermal power level, the temperature rise across the condensers as cooling water travels through the cooling system would remain constant. Thus, if water in the UHS were to rise by 0.8 °F (0.4 °C) to 102.8 °F (39.3 °C), heated water returning to the cooling pond through the discharge canal, which lies west of the river screen house, would also experience a corresponding 0.8 °F (0.4 °C) increase. That additional heat load would dissipate across some thermal gradient as discharged water travels down the discharge canal and through the 99-ac (40-ha) UHS.

Fish kills are likely to occur when cooling pond temperatures rise above 95 °F (35 °C), the temperature at which most fish in the cooling pond are thermally stressed. For example, section 3.7.4 of the Braidwood FSEIS describes six fish kill events for the period of 2001 through 2015. The fish kill events, which occurred in July 2001, August 2001, June 2005, August 2007, June

2009, and July 2012, primarily affected threadfin shad and gizzard shad, although bass, catfish, carp, and other game fish were also affected. Reported peak temperatures in the cooling pond during these events ranged from 98.4 °F (36.9 °C) to over 100 °F (37.8 °C), and each event resulted in the death of between 700 to as many as 10,000 fish. During the July 2012 event, cooling pond temperatures exceeded 100 °F (37.8 °C), which resulted in the death of approximately 3,000 gizzard shad and 100 bass, catfish, and carp. This event coincided with the NRC's granting of Enforcement Discretion to allow Braidwood to continue to operate above the TS limit of ≤ 100 °F (37.8 °C). The IDNR attributed this event, as well as four of the other fish kill events, to high cooling pond temperatures resulting from Braidwood operation. Appendix B, section 4.1, of the Braidwood renewed facility operating licenses, requires Constellation to report to the NRC the occurrence of unusual or important environmental events, including fish kills, causally related to plant operation. Since the issuance of the Braidwood FSEIS in November 2015, the licensee has not reported any additional fish kill events to the NRC. Although not causally related to plant operation, fish kills have occurred since this time, the most recent of which occurred in August 2018 and July 2020.

In section 4.7.1.3 of the Braidwood FSEIS, the NRC staff concluded that thermal impacts associated with continued operation of Braidwood during the license renewal term would result in SMALL to MODERATE impacts to aquatic resources in the cooling pond. MODERATE impacts would primarily be experienced by gizzard shad and other non-stocked and low-heat tolerant species. As part of its conclusion, the NRC staff also noted that because the cooling pond is a highly managed system, any cascading effects that result from the loss of gizzard shad (such as reduction in prey for stocked species, which in turn could affect those stocked species' populations) could be mitigated through IDNR's annual stocking and continual management of the pond. At that time, the UHS TS limit was ≤ 100 °F (37.8 °C).

In 2016, the NRC granted license amendments that increased the allowable UHS average water temperature TS limit from ≤ 100 °F (37.8 °C) to ≤ 102.0 °F (38.9 °C). In the EA associated with these amendments, the NRC staff concluded that increasing the TS limit to ≤ 102.0 °F (38.9 °C) would have no significant environmental impacts, and the NRC issued a FONSI with the EA.

In 2020, 2021, and 2022, the NRC granted license amendments that temporarily increased the allowable UHS average water temperature TS limit from ≤ 102.0 °F (38.9 °C) to ≤ 102.8 °F (39.3 °C) until September 30, 2020, September 30, 2021, and September 30, 2022, respectively. In the EAs associated with these amendments, the NRC staff concluded that temporarily increasing the TS limit to ≤ 102.8 °F (39.3 °C) would have no significant environmental impacts, and the NRC issued a FONSI with the EA.

The NRC staff finds that the proposed action would not result in significant impacts to aquatic resources in the cooling pond for the same reasons that the NRC staff made this conclusion regarding the 2020 and 2021 amendments. The staff's justification for this conclusion is as follows.

The proposed increase in the allowable UHS average water temperature limit by 0.8 °F (0.4 °C) would not increase the likelihood of a fish kill event attributable to high cooling pond temperatures because the current TS limit for the UHS of 102.0 °F (38.9 °C) already allows cooling pond temperatures above those at which most fish species are thermally stressed (95 °F (35 °C)). In effect, if the UHS temperature rises to the current TS limit, fish within or near the discharge canal, within the flow path between the discharge canal and UHS, or within the UHS itself would have already experienced thermal stress and possibly died. Thus, an incremental increase in the allowable UHS water temperature by 0.8 °F (0.4 °C), and the corresponding temperature increases within and near the discharge canal, and within the flow path between the discharge canal and UHS, would not significantly affect the number of fish kill events experienced in the cooling pond. Additionally, the proposed action would only increase the allowable UHS average water temperature until September 30, 2023. Thus, any impacts to the aquatic community of the cooling pond, if experienced, would be temporary in nature, and fish populations would likely recover relatively quickly.

While the proposed action would not affect the likelihood of a fish kill event occurring during periods when the average UHS water temperature approaches the TS limit, the proposed action could increase the number of fish killed per high temperature event. For fish with thermal tolerances at or near 95 °F (35 °C), there would likely be no significant difference in the number of affected fish per high temperature event because, as already stated, these fish would have already experienced

thermal stress and possibly died, and the additional temperature increase would not measurably affect the mortality rate of these individuals. For fish with thermal tolerances above 95 °F (35 °C), such as bluegill, increased mortality is possible, as described in this EA.

The available scientific literature provides conflicting information as to whether incremental temperature increases would cause a subsequent increase in mortality rates of bluegill or other high-temperature-tolerant fish when temperatures exceed 100 °F (37.8 °C). For instance, in laboratory studies, Banner and Van Arman (1973) demonstrated 85 percent survival of juvenile bluegill after 24 hours of exposure to 98.6 °F (37.0 °C) water for stock acclimated to 91.2 °F (32.9 °C). At 100.0 °F (37.8 °C), survival decreased to 25 percent, and at 100.4 °F (38.0 °C) and 102.0 °F (38.9 °C), no individuals survived. Even at 1 hour of exposure to 102.0 °F (38.9 °C) water, average survival was relatively low at between 40 to 67.5 percent per replicate. However, in another laboratory study, Cairns (1956 in Banner and Van Arman 1973) demonstrated that if juvenile bluegill were acclimated to higher temperatures at a 3.6 °F (2.0 °C) increase per day, individuals could tolerate water temperatures up to 102.6 °F (39.2 °C) with 80 percent survival after 24 hours of exposure.

Although these studies provide inconsistent thermal tolerance limits, information from past fish kill events indicates that Cairns' results better describe the cooling pond's bluegill population because the licensee has not reported bluegill as one of the species that has been affected by past high temperature events. Thus, bluegills are likely acclimating to temperature rises at a rate that allows those individuals to remain in high temperature areas until temperatures decrease or that allows individuals time to seek refuge in cooler areas of the pond. Alternately, if Banner and Van Arman's results were more predictive, 75 percent or more of bluegill individuals in high temperature areas of the cooling pond could be expected to die at temperatures approaching or exceeding 100 °F (37.8 °C) for 24 hours, and shorter exposure time would likely result in the death of some reduced percentage of bluegill individuals.

Under the proposed action, fish exposure to temperatures approaching the proposed UHS TS average water temperature limit of 102.8 °F (39.3 °C) and those exposed to the associated discharge, which would be 0.8 °F (0.4 °C) higher than allowed under the

current TS limit, for at least one hour would result in observable deaths. However, as stated previously, the licensee has not reported bluegill as one of the species that has been affected during past fish kills. Consequently, the NRC staff assumes that bluegill and other high-temperature-tolerant species in the cooling pond would experience effects similar to those observed in Cairn's study. Based on Cairn's results, the proposed action's incremental and short-term increase of 0.8 °F (0.4 °C) could result in the death of some additional high-temperature-tolerant individuals, especially in cases where cooling pond temperatures rise dramatically over a short period of time (more than 3.6 °F (2.0 °C) in a 24-hour period).

Nonetheless, the discharge canal, the flow path between the discharge canal and the UHS, and the UHS itself constitute a small area as compared to the cooling pond. Thus, while the incremental increase would likely increase the area over which cooling pond temperatures would rise above currently allowed temperatures, most of the cooling pond would remain at tolerable temperatures, and fish would be able to seek refuge in those cooler areas. Therefore, only fish within or near the discharge canal, within the flow path between the discharge canal and UHS, or within the UHS itself at the time of elevated temperatures would likely be affected, and fish would experience such effects to lessening degrees over the thermal gradient that extends from the discharge canal. This would not result in a significant difference in the number of fish killed per high temperature event resulting from the proposed action as compared to current operations, for those species with thermal tolerances at or near 95 °F (35 °C), and would result in an insignificant increase in the number of individuals affected for species with thermal tolerances above 95 °F (35 °C), such as bluegill.

Fish populations affected by fish kills generally recover quickly and, thus, fish kills do not appear to significantly influence the fish community structure. This is demonstrated by the fact that the species that are most often affected by high temperature events (threadfin shad and gizzard shad) are also among the most abundant species in the cooling pond. Managed species would continue to be assessed and stocked by the IDNR on an annual basis in accordance with the lease agreement between Constellation and IDNR. Continued stocking would mitigate any effects resulting from the proposed action. Also, as stated previously, although the

plants have been authorized to operate up to 102.8 °F temporarily, at no time in the past 3 years did the UHS temperature exceed 102 °F. Based on the foregoing analysis, the NRC staff concludes that the proposed action would not result in significant impacts to aquatic resources in the cooling pond. Some terrestrial species, such as birds or other wildlife, rely on fish or other aquatic resources from the cooling pond as a source of food. The NRC staff does not expect any significant impacts to birds or other wildlife because, if a fish kill occurs, the number of dead fish would be a small proportion of the total population of fish in the cooling pond. Furthermore, during fish kills, birds and other wildlife could consume many of the floating, dead fish. Additionally, and as described previously, the NRC staff does not expect that the proposed action would result in a significant difference in the number or intensity of fish kill events or otherwise result in significant impacts to aquatic resources in the cooling pond.

With respect to water resources and ecological resources along and within the Kankakee River, the Illinois Environmental Protection Agency (IEPA) imposes regulatory controls on Braidwood's thermal effluent through title 35, Environmental Protection, section 302, 'Water Quality Standards,' of the Illinois Administrative Code (35 IAC 302) and through the National Pollutant Discharge Elimination System (NPDES) permitting process pursuant to the Clean Water Act. Section 302 of the Illinois Administrative Code stipulates that "[t]he maximum temperature rise shall not exceed 2.8 °C (5 °F) above natural receiving water body temperatures," (35 IAC 302.211(d)) and that "[w]ater temperature at representative locations in the main river shall at no time exceed 33.7 °C (93 °F) from April through November and 17.7 °C (63 °F) in other months" (35 IAC 302.211(e)). Additional stipulations pertaining to the mixing zone further protect water resources and biota from thermal effluents. The Braidwood NPDES permit contains special conditions that mirror these temperature requirements and that stipulate more detailed temperature requirements at the edge of the mixing zone. Under the proposed action, Braidwood thermal effluent would continue to be limited by the Illinois Administrative Code and the Braidwood NPDES permit to ensure that Braidwood operations do not create adverse effects on water resources or ecological resources along or within the Kankakee River.

Under the proposed action, Constellation would remain subject to

the federal and State regulatory controls described in this notice. The NRC staff finds that Constellation's continued compliance with, and the State's continued enforcement of, the Illinois Administrative Code and the Braidwood NPDES permit would ensure that Kankakee River water and ecological resources are protected. Further, the proposed action would not alter the types or amounts of effluents being discharged to the river as blowdown. Therefore, the NRC staff does not expect any significant impacts to water resources or ecological resources within and along the Kankakee River as a result of temporarily increasing the allowable UHS average water temperature TS limit.

With respect to Federally listed species, the NRC staff consulted with the U.S. Fish and Wildlife Service (FWS) pursuant to section 7 of the ESA during its license renewal environmental review for Braidwood. During that consultation, the NRC staff found that sheepnose (*Plethobasus cyphus*) and snuffbox (*Epioblasma triquetra*) mussels had the potential to occur in the areas that would be directly or indirectly affected by license renewal (*i.e.*, the action area). In September 2015, Exelon transmitted the results of a mussel survey to the NRC and FWS. The survey documented the absence of Federally listed mussels near the Braidwood discharge site in the Kankakee River. Based on this survey and other information described in the Braidwood FSEIS, the NRC concluded that the license renewal may affect, but is not likely to adversely affect the sheepnose mussel, and the NRC determined that license renewal would have no effect on the snuffbox mussel. The FWS concurred with the NRC's "not likely to adversely affect" determination in a letter dated October 20, 2015. The results of the consultation are further summarized in the Record of Decision for Braidwood license renewal.

As previously described, impacts of the proposed action would be confined to the cooling pond and would not affect water resources or ecological resources along and within the Kankakee River. The NRC's previous ESA, section 7, consultation confirmed that no Federally listed aquatic species occur within or near the cooling pond. The NRC has not identified any information indicating the presence of

Federally listed species in the area since that consultation concluded, and the FWS has not listed any new aquatic species that may occur in the area since that time. The proposed action would not result in any disturbance or other impacts to terrestrial habitats and, thus, no Federally listed terrestrial species would be affected. Accordingly, the NRC staff concludes that the proposed action would have no effect on Federally listed species or designated critical habitat. Consultation with the FWS regarding the proposed action is not necessary because the NRC staff has determined that the requested action will have no effect on listed species or critical habitat.

The NRC staff has identified no foreseeable land use, visual resource, noise, or waste management impacts given that the proposed action would not result in any physical changes to Braidwood facilities or equipment or changes to any land uses on or off site. The NRC staff has identified no air quality impacts given that the proposed action would not result in air emissions beyond what would be experienced during current operations. Additionally, there would be no socioeconomic, environmental justice, or historic and cultural resource impacts associated with the proposed action since no physical changes would occur beyond the site boundaries and any impacts would be limited to the cooling pond.

Based on the foregoing analysis, the NRC staff concludes that the proposed action would have no significant environmental impacts.

Environmental Impacts of the Alternatives to the Proposed Action

As an alternative to the proposed action, the NRC staff considered the denial of the proposed action (*i.e.*, the "no action" alternative). Denial of the proposed action would result in no changes to the current TS. Thus, under the proposed action, the licensee would continue to be required to place Braidwood in hot standby (Mode 3) if average UHS water temperatures exceed 102 °F (38.9 °C) for the temporary period from the date of issuance of the amendments through September 2023. The no-action alternative would result in no change in environmental conditions or impacts at Braidwood beyond those considered in the Braidwood FSEIS.

Alternative Use of Resources

There are no unresolved conflicts concerning alternative uses of available resources under the proposed action.

Agencies and Persons Consulted

In accordance with the Commission's regulations, the Illinois State official was notified of the proposed issuance of the amendment on April 25, 2023. The State official had no comments.

III. Finding of No Significant Impact

The NRC is considering issuing amendments for Renewed Facility Operating License Nos. NPF-72 and NPF-77, issued to Constellation for operation of Braidwood that would revise the TS for the plant to temporarily increase the allowable average temperature of the UHS from the date of issuance of the amendments to September 30, 2023.

On the basis of the EA included in section II and incorporated by reference in this finding, the NRC concludes that the proposed action would not have significant effects on the quality of the human environment. The NRC's evaluation considered information provided in the licensee's application as well as the NRC's independent review of other relevant environmental documents. Section IV lists the environmental documents related to the proposed action and includes information on the availability of these documents. Based on its finding, the NRC has decided not to prepare an environmental impact statement for the proposed action.

This FONSI and other related environmental documents are available for public inspection and are accessible online in the ADAMS Public Documents collection at <https://www.nrc.gov/reading-rm/adams.html>. Persons who do not have access to ADAMS or who encounter problems in accessing the documents located in ADAMS should contact the NRC's PDR reference staff by telephone at 1-800-397-4209 or 301-415-4737, or by email to PDR.Resource@nrc.gov.

IV. Availability of Documents

The documents identified in the following table are available to interested persons through one or more of the following methods, as indicated.

Document	ADAMS accession No.
License Amendment Request	
Constellation Energy Generation, LLC. License Amendment to Braidwood Station, Units 1 and 2, Technical Specification 3.7.9, "Ultimate Heat Sink," dated March 23, 2023.	ML23083B941.
Other Referenced Documents	
Cairns J. 1956. Effects of heat on fish. <i>Industrial Wastes</i> , 1:180–183	n/a (1).
Banner A, Van Arman JA. 1973. Thermal effects on eggs, larvae and juveniles of bluegill sunfish. Washington, DC: U.S. Environmental Protection Agency. EPA–R3–73–041.	n/a (1).
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Dated: June 12, 2023.
For the Nuclear Regulatory Commission.

Joel S. Wiebe,
Senior Project Manager, Plant Licensing Branch III, Division of Operating Reactor Licensing, Office of Nuclear Reactor Regulation.

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SECURITIES AND EXCHANGE COMMISSION

[Release No. 34–97706; File No. SR–LCH SA–2023–004]

Self-Regulatory Organizations; LCH SA; Notice of Filing of Proposed Rule Change Relating to Triparty Collateral Mechanism

June 12, 2023.

Pursuant to section 19(b)(1) of the Securities Exchange Act of 1934 (“Exchange Act” or “Act”),¹ and Rule 19b–4 thereunder,² notice is hereby given that on May 30, 2023, Banque Centrale de Compensation, which

¹ 15 U.S.C. 78s(b)(1).

² 17 CFR 240.19b–4.

conducts business under the name LCH SA (“LCH SA”), filed with the Securities and Exchange Commission (“Commission”) the proposed rule change described in Items I, II and III below, which Items have been primarily prepared by LCH SA. The Commission is publishing this notice to solicit comments on the Proposed Rule Change from interested persons.

I. Clearing Agency’s Statement of the Terms of Substance of the Proposed Rule Change

LCH SA is proposing to amend its (i) CDS Clearing Rule Book (“Rule Book”) and (ii) CDS Clearing Procedures (“Procedures”) to incorporate new terms and to make conforming, clarifying and clean-up changes to offer the triparty