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Supervision by Individuals Designated by the RSO
Supervision by Name Listed
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Tiedown
Tiedown – Medical
Tiedown – MML
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Use of Material

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Watches under 30.15
Watches under 30.15 (Header)

ConditionDesc
Experimental animals, or the products from experimental animals, that have been administered licensed material shall not be used for human or animal consumption.
The Associate Radiation Safety Officer (ARSO) for this license is <<!ARSONames!>>.
The licensee is authorized to distribute the following series of self-luminous [specify products, (e.g. compasses and knives models, gunsights)] devices provided the amount of [hydrogen-3] does not exceed the amount specified in the following table: Device Model, Maximum Activity
[Insert the services authorized in this license, delete remaining: (i) Installation, (ii) initial radiation surveys, (iii) relocation, (iv) removal from service, (v) dismantling, (vi) alignment, (vii) replacement, (viii) disposal of the sealed source, and (ix) non-routine maintenance or repair of components related to the radiological safety of the gauge] shall be performed only by [insert name(s)], or other individuals who have completed the training specified in [insert application/letter] dated [insert date], or by persons specifically licensed by the U.S. Nuclear Regulatory Commission or an Agreement State to perform such services.
Any cleaning, maintenance, or repair of the gauge(s) that requires detaching the source or source rod from the gauge shall be performed only by the manufacturer or by other persons specifically licensed by the U.S. Nuclear Regulatory Commission or an Agreement State to perform such services.
Except for calibration sources, reference standards, and radioactively contaminated equipment owned by the licensee, receipt, storage, and use incidental to any activity involving licensed material at a temporary job site shall be limited to material originating from that site. This material must either be transferred to an authorized recipient or remain at the site after licensee activities are completed.
Before disposal as ordinary trash, the waste shall be surveyed at the container surface with the appropriate survey instrument set on its most sensitive scale and with no interposed shielding to determine that its radioactivity cannot be distinguished from background. All radiation labels shall be removed or obliterated, except for radiation labels on materials that are within containers and that will be managed as biomedical waste after they have been released from the licensee.
A record of each such disposal permitted under this license condition shall be retained for 3 years. The record must include the date of disposal, the date on which the byproduct material was placed in storage, the radionuclides disposed, the survey instrument used, the background dose rate, the dose rate measured at the surface of each waste container, and the name of the individual who performed the disposal.
The licensee is authorized to hold radioactive material with a physical half-life of less than or equal to 120 days for decay-in-storage before disposal in ordinary trash provided:
The licensee shall not conduct destructive tests involving source material such that airborne radioactivity would be released to the unrestricted areas.
The licensee may maintain, repair, or replace device components that are not related to the radiological safety of the device containing licensed material and that do not result in the potential for any portion of the body to come into contact with the primary beam or result in increased radiation levels in accessible areas.

The licensee may not maintain, repair, or replace any of the following device components: (i) the sealed source, (ii) the source holder, (iii) source drive mechanism, (iv) on-off mechanism (shutter), (v) shutter control, (vi) shielding, or (vii) any other component related to the radiological safety of the device, except as provided otherwise by specific condition of this license.
Each device distributed pursuant to the conditions of this license shall be in accordance with the following table: Device Model Number Isotope Source Model Number Maximum Activity Per Source
The following products [if needed: manufactured in accordance with NRC Sealed Source and Device Registration No. (insert number)], may be distributed, provided the amount of [insert isotope] contained in the device does not exceed the amounts specified in the following table: Device/Series Model Maximum Activity per Device
The licensee may distribute licensed material from its facilities located at <<!LicenseLocations!>>
Each lot of timepieces, hands and dials received, containing tritium for distribution pursuant to a 10 CFR 32.14 exempt distribution license, must be accompanied by a certificate, provided by the manufacturer, which attests to the following: The timepieces, hands, and dials have been manufactured in accordance with the International Standards Organization, American National Standards Institute, or equivalent industry standard and the amount of tritium on the timepieces, hands, and dials is not in excess of the maximum permissible amount
Special condition (for licensees to distribute sources along with a device): The check sources distributed under 10 CFR 32.18 may be attached to the outside of radiation detection instruments for the convenience of the user.
The following device containing byproduct material designed and manufactured in accordance with NRC registration certificate No. [NR-xxxx-D-101-E], may be distributed according to this license provided the amount of [e.g., americium-241] contained in the device does not exceed the amount specified in the following table: Device Model Maximum Quantity Per Device Watch Tritium M 160
The following device containing byproduct material designed and manufactured in accordance with NRC registration certificate No. [NR-xxxx-D-101-E], may be distributed according to this license provided the amount of [e.g., americium-241] contained in the device does not exceed the amount specified in the following table: Device Model Maximum Quantity Per Device ChemPro 100 V2 160 microcuries
The following industrial device containing byproduct material designed and manufactured in accordance with NRC registration certificate No. [NR-xxxx-D-101-E], for the purpose of [e.g., measuring qualitative or quantitative chemical composition], may be distributed according to this license provided the amount of [i.e. Nickel-63] contained in the device does not exceed the amount specified in the following table: Gas Chromatograph Model ECD Model SCION 436GC and 456GC 02-001972-02 15 millicuries (555
Each product distributed under this license shall not contain, as of the assay date, more than the quantity of byproduct material listed in the following table: Byproduct Material Product Name Maximum Activity
Each sealed source distributed under this license shall not contain, as of the assay date, more than the quantity of byproduct material listed in the following table: Byproduct Material Model Number Chemical and/or Physical Form Maximum Activity
Notwithstanding the requirements of 10 CFR 35.1690, [insert name] may perform the duties of the teletherapy physicist for those full-calibration measurments and periodic spot-checks specified in 10 CFR Part 35.
If approved by a Radiation Safety Officer specifically identified in this license, the licensee may take reasonable action in an emergency that departs from conditions in this license when the action is immediately needed to protect public health and safety and no action consistent with all license conditions that can provide adequate or equivalent protection is immediately apparent. The licensee shall notify the U.S. Nuclear Regulatory Commission Headquarters Operations Center at 301-816-5100 and the U.S. Nuclear Regulatory Commission Regional contact before, if practicable, and in any case immediately after taking such emergency action using the contact information specified in Appendix D of 10 CFR Part 20.

Obtain U.S. Nuclear Regulatory Commission approval of an evaluation demonstrating that an emergency plan is not required pursuant to 10 CFR [30.32(i), 40.31(j), and 70.22(i)], or
Submit written confirmation to the U.S. Nuclear Regulatory Commission, using contact information in Appendix D of 10 CFR Part 20, that licensee personnel have been trained and will follow the provisions of an existing emergency plan approved by the U.S. Nuclear Regulatory Commission or an Agreement State for the temporary
The licensee is not required to establish an emergency plan. Before taking possession of licensed material at a temporary job site in quantities requiring an emergency plan, the licensee shall either:
The opening, repair, or modification of any Energy Compensation Source must be performed by persons specifically licensed by the U.S. Nuclear Regulatory Commission or an Agreement State to perform such services.
This license does not authorize distribution to persons exempt from licensing.
Notwithstanding the requirements of 10 CFR 36.23(b), the licensee is exempt from the requirement to have an independent backup access control to detect personnel entry while sources are exposed based on the commitments described in the [letter/application] dated [insert date].
Notwithstanding the requirements of 10 CFR 36.23(c), the licensee is exempt from the requirement to integrate the radiation monitor with personnel access door locks to prevent room access when radiation levels are high based on the commitments described in the [letter/application] dated [insert date].
Notwithstanding the requirements of 10 CFR 36.23(f), the licensee is exempt from the requirement to have a control that prevents the sources from moving from the shielded position unless the control has been activated and the door or barrier to the radiation room has been closed within a preset time based on the commitments described in the [letter/application] dated [insert date].
Notwithstanding the requirements of 10 CFR 36.23(d), the licensee is exempt from having a visible and audible alarm within the radiation room, based on the commitments described in the [letter/application] dated [insert
Notwithstanding the requirements of 10 CFR 36.31(a), the licensee is exempt from the requirement to have a console key attached to a portable survey meter by a chain or cable and the door to the radiation room to have the same key, based on the commitments described in the [letter/application] dated [insert date]. The radiation room door key shall be attached to the portable survey meter.
Notwithstanding the requirements of 10 CFR 36.31(b), the licensee is exempt from the requirement to have a source position indicator to indicate when the source is in transit, in accordance with the [letter/application] dated [insert date].
Notwithstanding the requirements of 10 CFR 36.67(b)(2), the licensee is exempt from the requirement to have a control in the radiation room that must be activated prior to irradiation and that would not allow the source to be moved from the shielded position unless the door to the radiation room is locked within a preset time, based on the commitments described in the [letter/application] dated [insert date].
Notwithstanding the requirements of 10 CFR 36.27, the licensee is exempt from [insert what is exempted], based on the commitments described in the [letter/application] dated [insert date].
Notwithstanding the requirements of 10 CFR 35.655, the licensee is not required to fully inspect and service [insert teletherapy unit or gamma stereotactic unit] every [insert 5 or 7 years]. The licensee shall inspect the [insert teletherapy unit or gamma stereotactic unit] every [insert number of years].
Licensed material may be only at the licensee's facilities located at <<!LicenseLocations!>> <<!FieldStations!>> <<!RadiographicInstallations!>>

Licensed material may be stored or used at the following: (i) Field Station(s): <<!FieldStations!>> (ii) Permanent radiographic installation(s): <<!RadiographicInstallations!>> (iii) Temporary job site(s): Anywhere in the United States where the U.S. Nuclear Regulatory Commission maintains jurisdiction for regulating the use of licensed material, including areas of exclusive Federal jurisdiction within Agreement States. If the jurisdiction status of a Federal facility within an Agreement State is unknown, the licensee should contact the Federal agency controlling the job site in question to determine whether the proposed job site is an area of exclusive Federal jurisdiction. Authorization for use of radioactive materials at job sites in Agreement States not under exclusive federal jurisdiction should be obtained from the appropriate state regulatory agency.
This licensee is exempt from decommissioning financial assurance requirements for possession of licensed material in sealed sources in quantities greater than the limits in 10 CFR 30.35(d) for the purpose of source changes only. This exemption is granted for no more than 30 days for any one source change.
Pursuant to 10 CFR 30.11, 40.14, 70.17, and Condition 10 of this license, the licensee is exempted from requirements of 10 CFR 30.35, 40.36, and 70.25 to provide decommissioning financial assurance.
[If needed] In addition to the possession limits in Item 8, the licensee shall further restrict the possession of licensed material to quantities below the minimum limit in 10 CFR [30.35(d) or 40.36(b) or 70.25(d)] for which decommissioning financial assurance is required.
In addition to the possession limits in Item 8, as specified in 10 CFR [insert: 30.35(d) or 40.36(b) or 70.25(d)], the licensee shall further restrict the possession of: (i) unsealed byproduct material of half-life greater than 120 days or unsealed special nuclear material to quantities less than or equal to [insert: 10^4 or 10^5] times the applicable limits in Appendix B of 10 CFR Part 30, or (ii) readily dispersible source material to quantities less than or equal to [insert: 10 or 100 millicuries], or (iii) sealed byproduct material of half-life greater than 120 days to quantities less than or equal to [insert: 10^10 or 10^12] times the applicable limits in Appendix B of 10 CFR Part
Detector cells containing a titanium tritide foil or scandium tritide foil shall only be used in conjunction with a properly operating temperature control mechanism that prevents the foil temperature from exceeding that specified in the certificate of registration issued by the U.S. Nuclear Regulatory Commission pursuant to 10 CFR 32.210 or equivalent regulations from an Agreement State.
When in use, detector cells containing a titanium tritide foil or scandium tritide foil shall be vented to the outside.
The gauge must be mounted in accordance with written instructions provided by the manufacturer.
The gauge must be mounted in a location compatible with the Conditions of Normal Use and Limitations and/or Other Considerations of Use in the certificate of registration issued by the U.S. Nuclear Regulatory Commission or an Agreement State.
The on-off mechanism (shutter) must be locked in the off position, if applicable, or the source must be otherwise fully shielded.
The gauge must be received in good conditions (e.g., the package was not damaged).
The gauge must not require any modification to fit in the proposed location.
Mounting does not include electrical connection, activation, or operation of the gauge. The source must remain fully shielded, and the gauge may not be used until it is installed and made operational by a person specifically licensed by the U.S. Nuclear Regulatory Commission or an Agreement State to perform such operations.
The licensee may initially mount a gauge, if permitted by the certificate of registration issued by the U.S. Nuclear Regulatory Commission or an Agreement State, and under the following conditions:
Each gauge shall be tested for the proper operation of the on-off mechanism (shutter) and indicator, if any, at intervals not to exceed 6 months or at such longer intervals as specified in the certificate of registration issued by the U.S. Nuclear Regulatory Commission pursuant to 10 CFR 32.210 or the equivalent regulations of an
The periodic on-off mechanism (shutter) and indicator test requirement does not apply to gauges that are stored, not being used, and have the shutter lock mechanism in a locked position. The gauges exempted from this periodic test shall be tested before use. Records of test results shall be maintained for 3 years from the date

Pursuant to 10 CFR 20.2002, the licensee is authorized to dispose of licensed material by incineration [NOTE: add reference (i.e, as described in Attachment 11-1 to application dated Month, DD, YYYY)], provided the gaseous effluent from incineration does not exceed the limits specified for air in Appendix B to 10 CFR Part 20, Table 2.
Pursuant to 10 CFR 20.2002, [NOTE: add reference (i.e, as described in Attachment 11-1 to application dated Month, DD, YYYY)], the licensee may dispose of incinerator ash containing radioactive materials with Atomic Nos. 1 through 83, except as identified below, as ordinary waste in [specify the landfill(s)], provided that the concentration of radionuclides (in microcuries per gram of ash) at the time of disposal are no greater than the values in Appendix B of 10 CFR Part 20, Table 2, Column 2. For hydrogen-3, carbon-14, aluminum-26, chlorine-36, silver-108m, niobium-94, iodine-129, technetium-99, and thallium-204, the concentration can be no greater than one-tenth of the value in Appendix B of 10 CFR Part 20, Table 2, Column 2. If more than one radionuclide is present in the ash, the sum of fractions rule applies.
The intravascular brachytherapy afterloader device shall be inspected and serviced at intervals recommended by the manufacturer, and maintenance and repair shall be performed by the manufacturer or persons specifically licensed by the U.S. Nuclear Regulatory Commission or an Agreement State to perform such services.
After installation of the [irradiator/calibrator/HDR/etc.] and prior to the initiation of the [irradiator/calibration/medical program], a radiation survey shall be conducted to determine the maximum radiation levels in each area adjoining the [irradiaton/calibraton/HDR/etc.] room.
Prior to initial use and after installation, relocation, dismantling, alignment, or any other activity involving the source or removal of the shielding, the licensee shall assure that a radiological survey is performed to determine radiation levels in accessible areas around, above, and below the gauge with the shutter open. This survey shall be performed only by persons authorized to perform such services by the U.S. Nuclear Regulatory Commission
After installation of the irradiator and/or Cobalt-60 or Cesium-137 source(s) and prior to initiation of the irradiation program, a radiation survey shall be conducted to determine the maximum radiation levels in each area adjoining the irradiation room.
The procedures contained in the manufacturer's instruction manual for the irradiator authorized by this license shall be followed, and a copy of the procedures shall be made available to each person using or having responsibility for the use of the device.
Permit the use of the irradiator only when a calibrated and operable radiation survey meter or room monitor is available; and
Permit the irradiator door to be opened only after the operator has checked visual indicators to verify that the source has returned to its safe storage position; and
Have room monitors installed that will: (i) Operate at all times when the irradiator is in use; and (ii) Activate a visible and audible alarm when radiation exceeds 2 millirems per hour; and (iii) Detect any radiation leaking from the irradiator door; and (iv) Be visible to the irradiator user when he is next to the irradiator; or
If a room monitor is not installed, have available a calibrated and operable survey meter that will be used to: (i) Determine the radiation level at the irradiator door when the door is closed; and (ii) Check for any increase in radiation levels each time the irradiator door is opened.
If abnormal radiation levels or any malfunctions of the irradiator are detected at any time, cease using the irradiator, restrict access to the area housing the irradiator, immediately notify the Radiation Safety Officer, and submit all reports required under 10 CFR Part 20, Part 21 or Part 30.
Not repair or authorize repairs of the irradiator except by the manufacturer or other persons specifically authorized by the U.S. Nuclear Regulatory Commission or an Agreement State to perform such services.
For each J.L. Shepherd and Associates, Mark I or Model 81-22, Cesium-137 irradiator installed and used, the licensee shall:

Except for maintaining labeling as required by 10 CFR Part 20, or Part 71, the licensee shall obtain authorization from the U.S. Nuclear Regulatory Commission before making any changes in the sealed source, device, or source-device combination that would alter the description or specifications as indicated in the respective certificate of registration issued either by the U.S. Nuclear Regulatory Commission pursuant to 10 CFR 32.210 or by an
The licensee shall mark the following statements, “[name of manufacturer or initial transferor]” or “Distributed under US NRC License No. [License Number]” and “Contains Radioactive Material Kr-85 and/or thorium” on each immediate container, as described in the labeling guidance in “Consolidated Guidance About Materials Licenses: Program-Specific Guidance About Exempt Distribution Licenses” (NUREG-1556 Volume 8 Revision 1,
Each sealed source containing licensed material to be used outside of a shielded exposure device shall have a durable, legible, and visible tag permanently attached by a durable ring. The tag shall be at least 1 inch square, shall bear a conventional radiation symbol prescribed in 10 CFR 20.1901(a), and a minimum of the following instructions: "DANGER - RADIOACTIVE MATERIAL," "DO NOT HANDLE" and "NOTIFY CIVIL AUTHORITIES IF
Replacement of durable rings shall be carried out by the licensee or in accordance with [describe instructions or procedure].
The licensee shall ensure that each source holder or tool containing radioactive material bears a durable and clearly visible label bearing the radiation symbol and the words "Caution, Radioactive Material." The label must be on the smallest component that contains the licensed material and is transported as a separate piece of
Sealed sources and detector cells shall be tested for leakage and/or contamination at intervals not to exceed the intervals specified in the certificate of registration issued by the U.S. Nuclear Regulatory Commission under 10 CFR 32.210 or by an Agreement State. In the absence of a registration certificate, sealed sources shall be tested for leakage and/or contamination at intervals not to exceed 6 months, or at such other intervals as specified.
Notwithstanding Paragraph A of this Condition, sealed sources designed to primarily emit alpha particles shall be tested for leakage and/or contamination at intervals not to exceed 3 months.
Each sealed source fabricated by the licensee shall be inspected and tested for construction defects, leakage, and contamination prior to any use or transfer as a sealed source.

In the absence of a certificate from a transferor indicating that a leak test has been made within the intervals specified in the certificate of registration issued by the U.S. Nuclear Regulatory Commission under 10 CFR 32.210 or by an Agreement State, prior to the transfer, a sealed source received from another person shall not be put into use until tested and the test results received.
Sealed sources need not be tested if they contain only hydrogen-3; or they contain only a radioactive gas; or the half-life of the isotope is 30 days or less; or they contain not more than 100 microcuries of beta- and/or gamma-emitting material or not more than 10 microcuries of alpha-emitting material.
Sealed sources need not be tested if they are in storage and are not being used. However, when they are removed from storage for use or transferred to another person, and have not been tested within the required leak test interval, they shall be tested before use or transfer. No sealed source shall be stored for a period of more than 10 years without being tested for leakage and/or contamination.
The leak test shall be capable of detecting the presence of 185 becquerels (0.005 microcuries) of radioactive material on the test sample. If the test reveals the presence of 185 becquerels (0.005 microcuries) or more of removable contamination, a report shall be filed with the U.S. Nuclear Regulatory Commission in accordance with 10 CFR 30.50(c)(2), and the source shall be removed immediately from service and decontaminated, repaired, or disposed of in accordance with Commission regulations.
[THE LICENSE CONDITION IS USED IF THE LICENSEE IS AUTHORIZED TO COLLECT AND ANALYZE LEAK TEST SAMPLES.] Tests for leakage and/or contamination, including leak test sample collection and analysis, shall be performed by the licensee or other persons specifically licensed by the U.S. Nuclear Regulatory Commission or an Agreement State to perform such services.

[THIS LICENSE CONDITION IS USED IF THE LICENSEE IS NOT AUTHORIZED TO PERFORM LEAK TEST ANALYSIS.] Analysis of leak test samples and/or contamination shall be performed by persons specifically licensed by the U.S. Nuclear Regulatory Commission or an Agreement State to perform such services. The licensee is authorized to collect leak test samples but not perform the analysis.
Records of leak test results shall be kept in units of becquerels (microcuries) and shall be maintained for 3 years.
Notwithstanding the periodic leak test required by 10 CFR 39.35, the requirement does not apply to sources, except sources containing plutonium, that are stored and not being used. The sources exempted from this periodic test shall be tested for leakage before use or transfer to another person.
Sealed sources authorized for use other than well logging shall be tested for leakage and shall be inventoried in accordance with 10 CFR 39.35 and 10 CFR 39.37.
No sealed source shall be stored for a period of more than 10 years without being tested for leakage and/or contamination.
Notwithstanding the periodic leak test required by 10 CFR 34.27(c)(1) and (e), the requirement does not apply to radiography sources that are stored and not being used. These radiography sources must be leak tested before they are used or transferred to another person. No sealed source may be stored for a period of more than 10 years without being tested in accordance with 10 CFR 34.27(c)(1) and (e).
Sealed sources authorized for uses other than radiography shall be tested for leakage and shall be inventoried in accordance with 10 CFR 34.27 and 10 CFR 34.29, respectively.
This licensee is authorized to analyze leak test samples in accordance with the [application/letter] dated [insert
The licensee shall require permittees to conduct leak tests of sealed sources and detector cells. Sealed sources and detector cells shall be tested for leakage and/or contamination at intervals not to exceed the intervals specified in the certificate of registration issued by the U.S. Nuclear Regulatory Commission under 10 CFR 32.210 or by an Agreement State. In the absence of a registration certificate, sealed sources shall be tested for leakage and/or contamination at intervals not to exceed 6 months, or at such other intervals as specified.
Notwithstanding Paragraph A of this Condition, sealed sources designated to primarily emit alpha particles shall be tested for leakage and/or contamination at intervals not to exceed 3 months.
[Insert: Sealed sources, Source rods, Foil sources, or Detector cells] containing licensed material shall not be opened [Insert: or sources removed from source holders or detached from source rods, or foil sources removed from detector cells] by the licensee, except as specifically authorized.
Licensed material shall be stored at the licensee's facilities located at:

Licensed material shall be used or stored at the licensee's facilities located at: <<!LicenseLocations!>>
Licensed material may be [used or stored] only at temporary job sites of the licensee anywhere in the United States where the U.S. Nuclear Regulatory Commission maintains jurisdiction for regulating the use of licensed material, including areas of exclusive Federal jurisdiction within Agreement States. If the jurisdiction status of a Federal facility within an Agreement State is unknown, the licensee should contact the Federal agency controlling the job site in question to determine whether the proposed job site is an area of exclusive Federal jurisdiction. Authorization for use of radioactive materials at job sites in Agreement States not under exclusive Federal jurisdiction should be obtained from the appropriate state regulatory agency.
Licensed material shall be used or stored at the licensee's facilities located at <<!LicenseLocations!>> and may be used at temporary job sites of the licensee anywhere in the United States where the U.S. Nuclear Regulatory Commission maintains jurisdiction for regulating the use of licensed material, including areas of exclusive Federal jurisdiction within Agreement States. If the jurisdiction status of a Federal facility within an Agreement State is unknown, the licensee should contact the Federal agency controlling the job site in question to determine whether the proposed job site is an area of exclusive Federal jurisdiction. Authorization for use of radioactive materials at job sites in Agreement States not under exclusive Federal jurisdiction should be obtained from the
Licensed material shall be used at [insert MML: (e.g., United States Air Force)] facilities by: (1) [United States Air Force] personnel as authorized by permits issued by the [insert name of Radiation Safety Committee, (e.g., National Radiation Safety Committee)]; and (2) users who are not [insert MML: (e.g., United States Air Force)] personnel when such use is authorized by the [insert name of Radiation Safety Committee, (e.g., National Radiation Safety Committee)] and is conducted in work spaces under the control of the [insert MML: (e.g.,
Licensed Material shall be used at the licensee's facilities located at: [specify the Producer, Official Protraction Diagram Oil Field Name, Block Number, Gulf of Mexico (or Pacific Ocean), Platform OSC assigned number or latitude/longitude if the platform number has not been assigned or if the device is placed subsea.]
Licensed material listed in Subitem Nos. [insert subitem] through [insert subitem] shall be used at the licensee's facilities located at <<!LicenseLocations!>>.

The licensee shall report to the U.S. Nuclear Regulatory Commission using the contact information in Appendix D of 10 CFR Part 20, within 10 days after discovery of loss of contact with a nuclear-powered pacemaker patient.
Maintenance, repair, cleaning, replacement, and disposal of foils contained in detector cells shall be performed only by the device manufacturer or other persons specifically authorized by the U.S. Nuclear Regulatory Commission or an Agreement State to perform such services.
The licensee shall not use licensed material in field applications where activity is released except as provided otherwise by specific condition of this license.
The licensee shall not use the licensed material in or on humans. [NOTE: if needed add the following: except as provided otherwise by specific condition of this license].
Licensed material incident to mobile nuclear medicine activities may be delivered to the licensee's mobile van located at temporary job sites when trained licensee personnel are present to receive the licensed material.
The licensee is authorized to make modifications to the source rack as requested in [application/letter] dated [insert date]. The licensee shall test the movement of the source rack for proper operation in accordance with 10 CFR 36.41(f) and (i) prior to source loading.
The licensee shall not perform repairs or alterations of the irradiator involving removal of shielding or access to the licensed material. Removal, replacement, and disposal of sealed sources in the irradiator shall be performed by persons specifically licensed by the U.S. Nuclear Regulatory Commission or an Agreement State to perform such services.
The licensee may not take possession of the radioactive materials and/or sealed sources while at the customer's facility [insert as needed - for example "except for analytical samples"].
This license does not authorize possession or use of licensed materials.
If a customer also holds a license issued by the U.S. Nuclear Regulatory Commission or an Agreement State, the licensee shall establish a written agreement between the licensee and the customer specifying which licensee activities shall be performed pursuant to the customer's license and supervision, and which licensee activities shall be performed under the licensee's supervision pursuant to this license. A copy of this agreement shall be included in the notification required by license condition [insert number].
This license does not authorize commercial distribution of licensed material.
This license does not authorize commercial distribution to persons exempt from licensing pursuant to [insert applicable regulation, such as 10 CFR 30.19 or 10 CFR 30.14 through 30.21, inclusive].
This license does not authorize commercial distribution of licensed material to persons generally licensed pursuant to 10 CFR Part 31 or to persons exempt from licensing pursuant to [insert applicable regulation, such as
This license does not authorize commercial distribution of licensed material pursuant to 10 CFR 32.72 or 10 CFR 32.74 to persons generally licensed pursuant to 10 CFR Part 31 or equivalent regulations of any Agreement State; or to persons exempt from licensing pursuant to 10 CFR 30.14 through 10 CFR 30.21 inclusive, or equivalent regulations of any Agreement State.
The following services shall not be performed by the licensee: [Insert which services are NOT authorized in this license, delete remaining:] (i) installation, (ii) initial radiation surveys, (iii) relocation, (iv) removal from service, (v) dismantling, (vi) alignment, (vii)replacement, (viii) disposal of the sealed source, and (ix) non-routine maintenance or repair of components related to the radiological safety of the gauge (i.e., the sealed source, the source holder, source drive mechanism, on-off mechanism (shutter), shutter control, shielding). These services shall be performed only by persons specifically licensed by the U.S. Nuclear Regulatory Commission or an Agreement State to perform such services.

The licensee may detach the source rod from the gauge(s) for the purpose of cleaning, maintenance, or repair of the gauge(s) in accordance with procedures outline in the [application/letter] dated [insert date].
The licensee is not authorized to conduct source retrieval activities.
The licensee is not authorized to perform source changes in radiographic exposure devices. These services shall be performed by persons specifically licensed by the U.S. Nuclear Regulatory Commission or an Agreement State to perform such activities.
The licensee shall inform the U.S. Nuclear Regulatory Commission, [insert name of Regional Office], prior to transferring or disposing of depleted uranium shielding.
The licensee shall notify the U.S. Nuclear Regulatory Commission, using contact information in Appendix D of 10 CFR Part 20, in writing, at least 14 days before initiating activities under this license at a temporary job site, excluding routine packaging or repackaging for purposes of transporting and not requiring a job or site specific work package, and characterization and/or final surveys where neither radioactive materials nor radiation are likely to be detected. This notification shall include: (1) The estimated type, quantity, and physical/chemical forms of licensed material to be used, (2) The specific site location, (3) A description of planned activities including waste management and disposition, (4) The estimated start date and completion date for the job, (5) The name and title of a point of contact for the job, including information on how to contact this individual, and (6) Copy of the written agreement between the licensee and the customer as described by license condition [insert number for license condition “No Temporary Job Sites Authorized”].
Within 30 days of completing activities at each job site location, the licensee shall notify the U.S. Nuclear Regulatory Commission, using contact information in Appendix D of 10 CFR Part 20, in writing, of the temporary job site status and the disposition of any licensed material used.
The physician(s) responsible for follow-up, explantation and return of nuclear-powered pace makers to the manufacturer for proper disposal is [insert name(s)].
The licensee shall operate each device containing licensed material within the manufacturer's specified temperature and environmental limits such that the shielding and shutter mechanism of the source holder are
The total amount of depleted uranium contained in spent munitions which may remain in the Outdoor Target Area under the authorization of this license shall not exceed [insert amount] kilograms. Records of inventory of material fired into and retrieved from the Outdoor Target Area shall be maintained.
The licensee may not take ownership or possession of radioactive material(s) or source(s) originating from a client's site, without prior notification and written approval from the U.S. Nuclear Regulatory Commission.
The licensee shall continue patient follow-up and replacement procedures for the nuclear-powered pacemaker during the life of the patient. Procedures for recovery and authorized disposal of the nuclear-powered pacemaker by return to the manufacturer shall be followed upon the death of the patient. If return of the explanted pacemaker by return to the manufacturer is not possible, explanted pacemakers may be disposed of in accordance with the commitments, representations and procedures in the [letter/application] dated [insert
The licensee shall conduct a physical inventory every 6 months, or at other intervals approved by the U.S. Nuclear Regulatory Commission, to account for all sealed sources and/or devices received and possessed under the license. Records of inventories shall be maintained for 3 years from the date of each inventory, and shall include the radionuclides, quantities, manufacturer's name and model numbers, and the date of the inventory.

The licensee shall require permittees to conduct a physical inventory every 6 months to account for all sources and/or devices received and possessed under their respective permits.
The licensee shall require that permittees maintain records of physical inventories for 3 years from the date of each inventory. Records shall include the quantities and kinds of licensed material, manufacturer's name and model numbers, location of the sources and/or devices, and the date of the inventory.
Each portable nuclear gauge shall have a lock or outer locked container designed to prevent unauthorized or accidental removal of the sealed source from its shielded position. The gauge or its container must be locked when in transport or storage, or when not under the direct surveillance of an authorized user.
If only one radionuclide is possessed, the possession limit is the quantity specified for that radionuclide in 10 CFR 33.100, Schedule A, Column I. If two or more radionuclides are possessed, then the possession limit is determined as follows: For each radionuclide, determine the ratio of the quantity possessed to the applicable quantity specified in 10 CFR 33.100, Schedule A, Column I, for that radionuclide. The sum of the ratios for all radionuclides possessed under the license shall not exceed unity.
If only one radionuclide is possessed, the possession limit is the quantity specified for that radionuclide in 10 CFR 33.100, Schedule A, Column II. If two or more radionuclides are possessed, then the possession limit is determined as follows: For each radionuclide, determine the ratio of the quantity possessed to the applicable quantity specified in 10 CFR 33.100, Schedule A, Column II, for that radionuclide. The sum of the ratios for all radionuclides possessed under the license shall not exceed unity.
The specified possession limit for nuclear-powered pacemakers includes all licensed material possessed by the licensee under this license whether in storage, implanted in patients, or otherwise in use.
Notwithstanding the requirements of 10 CFR 32.11(c), the licensee may distribute processed gemstones as described in the application dated [insert date], for the purpose of being worn by human beings. These may contain radionuclides that do not appear in 10 CFR 30.70 at concentrations up to those specified in the application, applying NOTE 2 of 10 CFR 30.70; and
The licensee shall evaluate any gemstones that the licensee has determined are below the exempt concentrations, and have subsequently been irradiated with an accelerator, using appropriate instrumentation and following appropriate procedures to ensure that any induced radionuclides do not exceed the concentration limits specified in 10 CFR 30.70, Schedule A, and the approved derived concentration limits for radionuclides not
The licensee shall not accept any material unless it is accompanied by documentation indicating that the material has been analyzed and found to contain less than exempt concentrations as specified in 10 CFR 30.14 and 30.70, and in accordance with NOTE 2 to 10 CFR 30.70. The licensee shall ensure that the measurement process was adequate to measure radioactivity below the exempt concentrations. The licensee shall perform periodic confirmatory measurements, as approved, of the material received to ensure the regulatory
The proposed revision is documented, reviewed, and approved by the licensee's Radiation Safety Committee in accordance with established procedures prior to implementation;
The revised program is in accordance with regulatory requirements, will not change the license conditions, and will not decrease the effectiveness of the Radiation Safety Program;
The licensee's staff is trained in the revised procedures prior to implementation; and
The licensee's audit program evaluates the effectiveness of the change and its implementation.
Notwithstanding the requirements of License Condition [Insert Tie-Down Condition Number], the licensee is authorized to make program changes and changes to procedures specifically identified in the [application/letter] dated [insert date], which were previously approved by the U.S. Nuclear Regulatory Commission and incorporated into the license without prior Commission approval as long as:

Any proposed changes in packaging, labeling, shielding, or instructions for use and storage shall be submitted for review to the U.S. Nuclear Regulatory Commission in accordance with Appendix D of 10 CFR Part 20. The approval of the changes shall be received by the licensee prior to implementing any of the changes.
The pulsed neutron generator tool should not be energized before going down-hole to a depth of at least 200 feet or into a calibration tank.
The pulsed neutron generator tool should not be retracted to the surface or from the calibration tank until sufficient time has allowed for activation products in the tool to decay in accordance with [application/letter]
Licensed material shall only be used by, or under the supervision of, individuals designated, in writing, by the [Note: enter licensee's Radiation Safety Committee name]. The licensee shall maintain records of individuals designated as users for 3 years after the individual's last use of licensed material.
[Insert name of Radiation Safety Committee, e.g., National Radiation Safety Committee] shall submit requests for approval to the U.S. Nuclear Regulatory Commission for exemptions from the Commission's regulations.
Pharmacists, as defined in 10 CFR 35.2, designated in writing to work as authorized nuclear pharmacists by the licensee's Radiation Safety Committee, shall meet the requirements in accordance with letter(s) dated [insert date]. The licensee shall maintain records of individuals designated as authorized nuclear pharmacists for 3 years following the last use of licensed material by the individual.
The licensee shall maintain records of information important to decommissioning for each temporary job site pursuant to 10 CFR [30.35(g), 40.36(f), and 70.25(g)]. The records shall be made available to the customer upon request. At the completion of activities at a temporary job site, the licensee shall transfer these records to the customer for retention.
Notwithstanding the requirements of 10 CFR 32.72(c), the licensee may redistribute alpha-, beta-, or photon-emitting radioactive drugs, which have been initially distributed by another radiopharmaceutical supplier licensed pursuant to 10 CFR 32.72, without verifying the radioactivity of the dosage. The licensee must not manipulate the dosage, including the packaging and label.
The following device containing byproduct material designed and manufactured in accordance with NRC registration certificate Nos. [NR-xxxx-D-101-E and NR-xxxx-D- 101-E], may be distributed according to this license provided the amount of [e.g., americium- 241] contained in the device does not exceed the amount specified in the following table:Device Model, Maximum Quantity Per Device
The following industrial device containing byproduct material designed and manufactured in accordance with NRC registration certificate No. [NR-xxxx-D-101-E], for the purpose of [e.g., measuring qualitative or quantitative chemical composition], may be distributed according to this license provided the amount of [e.g., Nickel-63] contained in the device does not exceed the amount specified in the following table: Gas Chromatograph Model, Device Model, Maximum Quantity Per Device
The licensee shall not acquire licensed material in a sealed source or device unless the source or device has been registered with the U.S. Nuclear Regulatory Commission pursuant to 10 CFR 32.210 or equivalent regulations of an Agreement State.
The licensee shall report to the U.S. Nuclear Regulatory Commission in accordance with Appendix D of 10 CFR Part 20, within 24 hours of occurrence, discovery of the death of any nuclear-powered pacemaker patient, and any adverse reaction and/or malfunction involving a pacemaker system, including the leads. A written report giving details of the adverse reaction and/or malfunction shall be submitted within 30 days.
Notwithstanding the requirements in 10 CFR 35.14 to notify the U.S. Nuclear Regulatory Commission, the [insert MML name: e.g., Department of Veterans Affairs] medical use permittees are authorized to make the notification required in 10 CFR 35.14 to the [insert MML entity e.g., Department of Veterans Affairs National Health Physics Program Director] provided the appropriate requirements in 10 CFR 35.13 (b) and 35.14 are met.
[Insert name of Radiation Safety Committee, e.g., National Radiation Safety Committee] shall assure that all uses of byproduct material on human research subjects are authorized and performed in accordance with the requirements in 10 CFR 35.6.

In addition to the possession limits in Item 8, the licensee shall further restrict the possession of licensed material in the form of unsealed material and foil or plated sources to quantities below the limits specified in 10 CFR 30.72, which require consideration of the need for an emergency plan for responding to a release of
The licensee shall not repair, remove, replace, or alter any of the following: electrical and mechanical systems that control source or shielding movement, the irradiator's shielding or sealed source, safety interlocks, or any component that may affect safe operation of the irradiator. These activities shall be performed by a person specifically licensed by the U.S. Nuclear Regulatory Commission or an Agreement State to perform such services.
Except for the repair or maintenance operations described in [letter/application] dated [insert date], the licensee shall not repair, remove, replace, or alter any of the following: electrical and mechanical systems that control source or shielding movement, the irradiator's shielding or sealed source, safety interlocks, or any component that may affect safe operation of the irradiator. These activities shall be performed by a person specifically licensed by the U.S. Nuclear Regulatory Commission or an Agreement State to perform such services.
The licensee is authorized to retrieve, receive and dispose of radioactive waste from its customers, limited to radiopharmacy-supplied syringes and vials and their contents.
The Radiation Safety Officer (RSO) for this license is <<!RSOName!>>.
Each sealed source fabricated by the licensee shall be inspected and tested for construction defects, leakage, and contamination prior to any use or transfer as a sealed source. Records of leak test results shall be kept in units of microcuries and shall be maintained for 3 years.
Notwithstanding the requirements of 10 CFR 36.23(a), the licensee may use separate keys to operate the lock on the personnel entrance door or barrier and to move the sources in accordance with procedures described in the [letter/application] dated [insert date].
Except for plutonium contained in a medical device designed for individual human application, no plutonium, regardless of form, shall be delivered to a carrier for shipment by air transport or transported in an aircraft by the licensee except in packages the design of which U.S. Nuclear Regulatory Commission has specifically approved for transport of plutonium by air.
The licensee shall assure that the shutter mechanism of each device containing licensed material is locked in the closed position during periods when a portion of an individual's body may be subject to the direct radiation beam. The licensee shall review and modify, as appropriate, its "lock-out" procedures whenever a new device is obtained to incorporate the device manufacturer's recommendations.

Except as provided for in paragraph B of this license condition, any activity performed by the licensee at a temporary job site related to site characterization or the decontamination and decommissioning of facilities, equipment, and containers, including any waste packaging incidental to these activities, must be performed in accordance with the customer licensee's NRC-approved decommissioning plan that pertains to that temporary
If the customer licensee is not required to submit a decommissioning plan to the NRC and if the customer licensee's operations at a temporary job site have been limited to the use of: (1) small quantities of short-lived radioactive materials, or (2) radioactive materials in sealed sources provided there is no evidence of leakage of radioactive material from these sealed sources, then any activity performed by the licensee at that temporary job site related to site characterization or the decontamination and decommissioning of facilities, equipment, and containers, including any waste packaging incidental to these activities, must be performed in accordance with the licensee's decommissioning procedures approved by the NRC under this license.
Any activity proposed to be performed by the licensee at a temporary job site that is not covered by either paragraph A or B of this license condition must be approved by the NRC through a site-specific license amendment or exemption request.
The licensee is authorized to conduct source retrieval activities in accordance with [application/letter] dated [insert date].
Radioactive waste possessed under this license shall be stored in accordance with the statements, representations, and procedures included with the licensee's waste storage plan described in the licensee's [application/letter] dated [insert date].
Licensed material shall only be used by or under the supervision of individuals meeting the requirements stated in 10 CFR 33.15(b) for the materials and uses as indicated: <<!AuthorizedUsers!>>
Individuals permitted to work as [insert either authorized users, authorized nuclear pharmacists, and/or authorized medical physicists, as appropriate] in accordance with 10 CFR 35.13 and 10 CFR 35.14.
The following individuals are authorized users for the material and medical uses as indicated: <<!AuthorizedUsers!>> <<!AuthorizedUsersMDMO!>>
The following individuals are authorized users for nonmedical uses as indicated: <<!AuthorizedUsers!>> <<!NonMedicalUsers!>>
The following individuals are authorized medical physicists [or ophthalmic physicists] for the materials and uses as indicated: <<!AuthorizedUsers!>> <<!MedicalPhysicists!>>
Licensed material shall only be used by, or under the supervision of:
Medical use shall be by an authorized user as defined in 10 CFR 35.2.
Individuals designated to work as [insert either authorized users, authorized nuclear pharmacists, or authorized medical physicists, as applicable] as defined in 10 CFR 35.2, shall meet the training, experience and recentness of training criteria established in 10 CFR Part 35 and shall be designated in writing by the licensee's Radiation Safety Committee.
Licensed material for other than human use shall be used by, or under the supervision of, individuals designated by the Radiation Safety Committee.
[AS NEEDED] Licensed material [in item #] shall only be used by, or under the supervision of, individuals who have received the training described in the [application/letter] dated [insert date], and have been designated in writing by the Radiation Safety Officer. The licensee shall maintain records of individuals designated as users for 3 years following the last use of licensed material by the individual.

A pharmacist working or designated as an authorized nuclear pharmacist in accordance with 10 CFR 32.72(b)(2)(i) or (4).
Authorized Nuclear Pharmacists: <<!NuclearPharmacists!>>
Authorized Users for Non-Medical Use: <<!NonMedicalUsers!>>
Licensed material shall only be used by, or under the supervision of:
Licensed material shall only be used by, or under the supervision and in the physical presence of, individuals who have received the training described in the [application/letter] dated [insert date], and have been designated in writing by the Radiation Safety Officer. The licensee shall maintain records of individuals designated as users for 3 years following the last use of licensed material by the individual.
Licensed material shall only be used by, or under the supervision and in the physical presence of, individuals who have been designated in writing by the Radiation Safety Officer and have been trained: (A) As specified in the [application/letter] dated [insert date]; and (B) In accordance with the provisions of 10 CFR 34.43
Licensed material shall only be used by, or under the supervision and in the physical presence of, [insert name(s)].
Licensed material shall only be used by, or under the supervision and in the physical presence of, individuals who have received the training described in the [application/letter] dated [insert date]. The licensee shall maintain records of individuals designated as users for 3 years following the last use of licensed material by the individual.
Licensed material shall only be used by, or under the supervision of individuals designated by [insert name of Radiation Safety Committee, e.g., National Radiation Safety Committee].
Licensed material shall only be used by, or under the supervision of, individuals designated, in writing, by the Radiation Safety Officer. The licensee shall maintain records of individuals designated as users for 3 years after the individual's last use of licensed material.
Licensed material shall only be used by, or under the supervision of: <<!AuthorizedUsers!>>.
Licensed material shall only be used by, or under the supervision of, individuals who have received the training described in the [application/letter] dated [insert date], and have been designated in writing by the Radiation Safety Officer. The licensee shall maintain records of individuals designated as users for 3 years following the last use of licensed material by the individual.
Licensed material shall only be used by, or under the supervision and in the physical presence of the Radiation Safety Officer, or individuals who have been trained in accordance with the [application/letter] dated [insert date]. The licensee shall maintain records of individuals designated as logging supervisor(s) and logging

Except as specifically provided otherwise in this license, the licensee shall conduct its program in accordance with the statements, representations, and procedures contained in the documents, including any enclosures, listed below. This license condition applies only to those statements, representations, and procedures that are required to be submitted in accordance with the regulations. The U.S. Nuclear Regulatory Commission's regulations shall govern unless the statements, representations, and procedures in the licensee's application and correspondence impose on the licensee requirements that are more restrictive than or in addition to the regulations.
Except as specifically provided otherwise in this license, the licensee shall conduct its program in accordance with the statements, representations, and procedures contained in the documents, including any enclosures, listed below. This license condition applies only to those statements, representations, and procedures that are required to be submitted in accordance with the regulations. Additionally, this license condition does not limit the licensee's ability to make changes to the radiation protection program as provided for in 10 CFR 35.26. The U.S. Nuclear Regulatory Commission's regulations shall govern unless the statements, representations, and procedures in the licensee's application and correspondence impose on the licensee requirements that are more restrictive than or in addition to the regulations.
Except as specifically provided otherwise in this license, the licensee shall conduct its program in accordance with the statements, representations, and procedures contained in the documents, including any enclosures, listed below ([insert any disclaimers, if necessary, e.g., excluding VHA Directive 1105.1, VHA Handbook 1105.1, and the internal procedures listed in NHPP Internal Procedure No. 1, etc.]). This license condition applies only to those statements, representations, and procedures that are required to be submitted in accordance with the regulations. The U.S. Nuclear Regulatory Commission’s regulations shall govern unless the statements, representations, and procedures in the licensee’s application and correspondence impose on the licensee requirements that are more restrictive than or in addition tothe regulations.
[USE THIS TIE-DOWN LICENSE CONDITION IF THE LICENSEE IS APPROVED TO CHANGE/REVISE LICENSE COMMITMENTS FOR 35.1000 USE (IF NRC GUIDANCE IS UPDATED AT LATER DATE)] Except as specifically provided otherwise in this license, the licensee shall conduct its program in accordance with the statements, representations, and procedures contained in the documents, including any enclosures, listed below. This license condition applies only to those statements, representations, and procedures that are required to be submitted in accordance with the regulations. Additionally, this license condition does not limit the licensee’s ability to make changes to the radiation protection program as provided for in 10 CFR 35.26 and applicable guidance updates for 10 CFR 35.1000 uses. The U.S. Nuclear Regulatory Commission’s regulations shall govern unless the statements, representations, and procedures in the licensee’s application and correspondence impose on the licensee requirements that are more restrictive than or in addition to the regulations.
Except for vehicle maintenance, the licensee shall not move mobile non-intrusive inspection systems on public roads unless specific authorization is obtained from the U.S. Nuclear Regulatory Commission.
[Insert MML name: e.g., United States Air Force] requirements, policies, and directives governing the use of licensed material must be consistent with the Nuclear Regulatory Commission's regulations.
Licensed material shall only be used by, or under the supervision and in the physical presence of, individuals who have received the training described in the [application/letter] dated [insert date]. The licensee shall maintain records of individuals designated as users for 3 years following the last use of licensed material by the individual.

Notwithstanding the requirement of 10 CFR 39.47, pursuant to 10 CFR 39.91, and in accordance with statements, representations, and procedures contained in [insert reference: e.g., the letters dated Month, DD, YYYY, Month, DD, YYYY, and Month, DD, YYYY], the licensee may use radioactive markers with activities of 100 microcuries or less of cobalt-60 and 50 microcuries or less of cesium-137 for subsurface monitoring in surface cased oil and/or gas wells, provided that a member of the public would not receive more than 100 millirems annually, in the event the sources ruptured.
This license does not authorize the use of radiation from an NRC licensed utilization facility on human subjects.
The timepieces, hands, and dials have been manufactured in accordance with the International Atomic Energy Agency, International Standards Organization, OECD Nuclear Energy Agency, American National Standards Institute or equivalent industry standard; and the amount of tritium on the timepieces, hands, and dials is not in excess of the maximum permissible amounts authorized in 10 CFR 30.15(a)(1).
Each lot of timepieces, hands and dials received, containing tritium for distribution for use under 10 CFR 30.15, must be accompanied by a certificate which attests to the following:

ProgramCodes
01100, 01110, 01120, 02110, 02400, 03610, 03611, 03612, 03613, 03620, 04410, 04411, 04616, 04617, 04618, 04619, 04620, 04621, 04622, 04623, 04710, 04711
02110, 02120, 02121, 02200, 02201, 02210, 02220, 02230, 02231, 02240
03254
03120, 03124, 03130, 03310, 04414, 04415, 04422, 04423, 04436, 04437
03121, 04416, 04417
03219, 03234
01100, 01110, 01120, 02110, 02400, 02410, 02500, 02511, 02513, 02600, 03112, 03210, 03211, 03212, 03213, 03214, 03220, 03232, 03240, 03241, 03242, 03243, 03244, 03610, 03611, 03612, 03613, 03620, 03800, 03810, 04010, 04011, 04012, 04013, 04014, 04015, 04110, 04111, 04210, 04211, 04212, 04213, 04214, 04215, 04410, 04411, 04412, 04413, 04424, 04425, 04430, 04431, 04432, 04433, 04610, 04611, 04612, 04613, 04614, 04615, 04616, 04617, 04618, 04619, 04620, 04621, 04622, 04623, 04710, 04711
01100, 01110, 01120, 02110, 02400, 02410, 02500, 02511, 02513, 02600, 03112, 03210, 03211, 03212, 03213, 03214, 03220, 03232, 03240, 03241, 03242, 03243, 03244, 03610, 03611, 03612, 03613, 03620, 03800, 03810, 04010, 04011, 04012, 04013, 04014, 04015, 04110, 04111, 04210, 04211, 04212, 04213, 04214, 04215, 04410, 04411, 04412, 04413, 04424, 04425, 04430, 04431, 04432, 04433, 04610, 04611, 04612, 04613, 04614, 04615, 04616, 04617, 04618, 04619, 04620, 04621, 04622, 04623, 04710, 04711
01100, 01110, 01120, 02110, 02400, 02410, 02500, 02511, 02513, 02600, 03112, 03210, 03211, 03212, 03213, 03214, 03220, 03232, 03240, 03241, 03242, 03243, 03244, 03610, 03611, 03612, 03613, 03620, 03800, 03810, 04010, 04011, 04012, 04013, 04014, 04015, 04110, 04111, 04210, 04211, 04212, 04213, 04214, 04215, 04410, 04411, 04412, 04413, 04424, 04425, 04430, 04431, 04432, 04433, 04610, 04611, 04612, 04613, 04614, 04615, 04616, 04617, 04618, 04619, 04620, 04621, 04622, 04623, 04710, 04711
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