|  |  |  |  |
| --- | --- | --- | --- |
| **L2HE WS4 Disassembly Procedure** | | | |
| **Document Number:** | L2HE-PR-CMA-VV-DISA | **Effective Date:** | 29 Apr 2025 |
| **Revision Number:** | 1 | **Periodic Review Date:** | N/A |
| **Document Owner:** | John Fischer | **Department Owner:** | SRF Operations |

# Purpose and Scope

The purpose of this document is to describe the L2HE workstation 4 (Cantilever Tooling) disassembly process.

The work begins with the unit ready to be positioned on the cantilever tooling and ends with a Cold Mass removed from the vacuum vessel and ready to move to Workstation 3. All removed components will be reworked and stored until being reused or replaced.

# Definitions and Diagrams

The following terms have specific meanings within this procedure.

|  |  |
| --- | --- |
| **Term** | **Definition** |
| Workstation 4 | Area of Cryomodule assembly containing the Cantilever and associated tooling. |
| Workstation 3 | Area of Cryomodule assembly containing the 4 poster tooling, where the UCM and cavity string are united. |
| Cold Mass | Contains the Upper Cold Mass assembly, cavity string, and assorted components relative to that level of assembly. |
| Vacuum Vessel | Is the outer jacket of the Cryomodule which contains the Cold Mass and UCM. It is orange in color. |
| Upper Cold Mass | The UCM is the cavity string strongback support and the gaseous helium return pipe |
| Cavity String | Made up of 8 cavities in helium vessels, cold RF couplers, and two cold isolation valves |

# Roles and Responsibilities

The following roles have responsibilities described in this document. The following actions are to be performed by knowledgeable, authorized Technicians only. Consult the Group Lead for details

|  |  |
| --- | --- |
| **Role** | **Responsibility** |
| Cryomodule Assembly Technician | Is trained and executes this Procedure performing described mechanical tasks |
| Cryomodule Assembly Lead/SME | Overlooks the execution of this Procedure and documents the results and any lessons learned |

# Safety

As with any mechanical disassembly or assembly task; the person performing the work shall evaluate the Procedure and steps and define the training, PPE, and have the necessary Competence required to complete the work.

# Procedure

1. Once disassembly is completed as WS5, using the OHC, transport the Cryomodule to the WS4 Cantilever. (Fig 1)

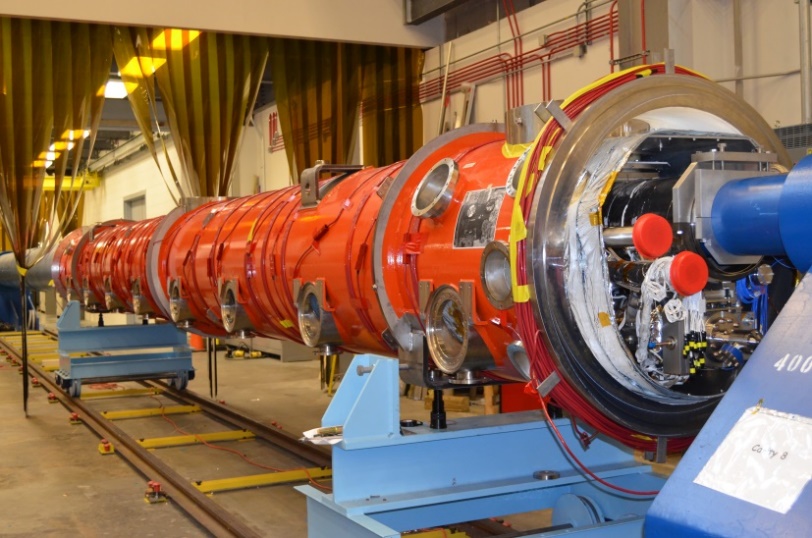


Figure 1

1. Support the cold mass, engaging the cantilever tooling to the correct locations. Lock down the

transfer carts.

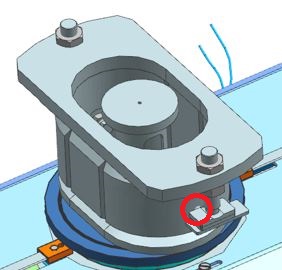
1. Adjust the Vacuum Vessel elevation to load the Cold Mass weight onto the cantilever tooling.
2. Install the anti-roll clamp, shown in Fig 2

A picture containing engine

AI-generated content may be incorrect.

Figure 2

1. Using the OHC’s, mark locations then remove the support posts (Fig 5). Two sliding supports (Fig 3), and one center post (Fig 4)

![Icon

AI-generated content may be incorrect.](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAYABgAAD/4RD+RXhpZgAATU0AKgAAAAgABQESAAMAAAABAAEAAAE7AAIAAAANAAAIVodpAAQAAAABAAAIZJydAAEAAAAaAAAQ3OocAAcAAAgMAAAASgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAEpvaG4gRmlzY2hlcgAAAAWQAwACAAAAFAAAELKQBAACAAAAFAAAEMaSkQACAAAAAzYxAACSkgACAAAAAzYxAADqHAAHAAAIDAAACKYAAAAAHOoAAAAIAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAyMDIzOjExOjAxIDA5OjM1OjExADIwMjM6MTE6MDEgMDk6MzU6MTEAAABKAG8AaABuACAARgBpAHMAYwBoAGUAcgAAAP/hCx9odHRwOi8vbnMuYWRvYmUuY29tL3hhcC8xLjAvADw/eHBhY2tldCBiZWdpbj0n77u/JyBpZD0nVzVNME1wQ2VoaUh6cmVTek5UY3prYzlkJz8+DQo8eDp4bXBtZXRhIHhtbG5zOng9ImFkb2JlOm5zOm1ldGEvIj48cmRmOlJERiB4bWxuczpyZGY9Imh0dHA6Ly93d3cudzMub3JnLzE5OTkvMDIvMjItcmRmLXN5bnRheC1ucyMiPjxyZGY6RGVzY3JpcHRpb24gcmRmOmFib3V0PSJ1dWlkOmZhZjViZGQ1LWJhM2QtMTFkYS1hZDMxLWQzM2Q3NTE4MmYxYiIgeG1sbnM6ZGM9Imh0dHA6Ly9wdXJsLm9yZy9kYy9lbGVtZW50cy8xLjEvIi8+PHJkZjpEZXNjcmlwdGlvbiByZGY6YWJvdXQ9InV1aWQ6ZmFmNWJkZDUtYmEzZC0xMWRhLWFkMzEtZDMzZDc1MTgyZjFiIiB4bWxuczp4bXA9Imh0dHA6Ly9ucy5hZG9iZS5jb20veGFwLzEuMC8iPjx4bXA6Q3JlYXRlRGF0ZT4yMDIzLTExLTAxVDA5OjM1OjExLjYxMTwveG1wOkNyZWF0ZURhdGU+PC9yZGY6RGVzY3JpcHRpb24+PHJkZjpEZXNjcmlwdGlvbiByZGY6YWJvdXQ9InV1aWQ6ZmFmNWJkZDUtYmEzZC0xMWRhLWFkMzEtZDMzZDc1MTgyZjFiIiB4bWxuczpkYz0iaHR0cDovL3B1cmwub3JnL2RjL2VsZW1lbnRzLzEuMS8iPjxkYzpjcmVhdG9yPjxyZGY6U2VxIHhtbG5zOnJkZj0iaHR0cDovL3d3dy53My5vcmcvMTk5OS8wMi8yMi1yZGYtc3ludGF4LW5zIyI+PHJkZjpsaT5Kb2huIEZpc2NoZXI8L3JkZjpsaT48L3JkZjpTZXE+DQoJCQk8L2RjOmNyZWF0b3I+PC9yZGY6RGVzY3JpcHRpb24+PC9yZGY6UkRGPjwveDp4bXBtZXRhPg0KICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICA8P3hwYWNrZXQgZW5kPSd3Jz8+/9sAQwACAQECAQECAgICAgICAgMFAwMDAwMGBAQDBQcGBwcHBgcHCAkLCQgICggHBwoNCgoLDAwMDAcJDg8NDA4LDAwM/9sAQwECAgIDAwMGAwMGDAgHCAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwM/8AAEQgBQQFdAwEiAAIRAQMRAf/EAB8AAAEFAQEBAQEBAAAAAAAAAAABAgMEBQYHCAkKC//EALUQAAIBAwMCBAMFBQQEAAABfQECAwAEEQUSITFBBhNRYQcicRQygZGhCCNCscEVUtHwJDNicoIJChYXGBkaJSYnKCkqNDU2Nzg5OkNERUZHSElKU1RVVldYWVpjZGVmZ2hpanN0dXZ3eHl6g4SFhoeIiYqSk5SVlpeYmZqio6Slpqeoqaqys7S1tre4ubrCw8TFxsfIycrS09TV1tfY2drh4uPk5ebn6Onq8fLz9PX29/j5+v/EAB8BAAMBAQEBAQEBAQEAAAAAAAABAgMEBQYHCAkKC//EALURAAIBAgQEAwQHBQQEAAECdwABAgMRBAUhMQYSQVEHYXETIjKBCBRCkaGxwQkjM1LwFWJy0QoWJDThJfEXGBkaJicoKSo1Njc4OTpDREVGR0hJSlNUVVZXWFlaY2RlZmdoaWpzdHV2d3h5eoKDhIWGh4iJipKTlJWWl5iZmqKjpKWmp6ipqrKztLW2t7i5usLDxMXGx8jJytLT1NXW19jZ2uLj5OXm5+jp6vLz9PX29/j5+v/aAAwDAQACEQMRAD8A/fyiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiijrQA0EA0pUGvFfFP7Sk0virV9F8I2MN+2k3H2XUNTvZNtlbXGTvhjRP3kzx/wAf3Ix08zeHAzJfjX4+tQs0cnhW+2/vHtns7i3Mv/TNJPMfZ/v+XIK2WHnNaHLUxlKE+Q9+orgfgd8bLH416LqMkNvPp+qaDe/2bq2nTv8AvLGcIkg/343jdJEfo6OD7V32axOoKKKKACiiigAooziigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACgnFQzTx2sDPI6KiffZq4PW/2kPB+lytFFrSatcRnJt9Kje/kx6Hyc7P+B4oC56AXoDGvFdZ/aX1jUV/4kPhf7Kskf8Ar9avfJMR/wCuMPmZ/F0rBv8A4h+O9ZibzfFUGm7k/wCYVpkMfl/9/wDz63WHmzjqY6lDdn0R2rh/jT8efC/wA8PpqPiPUGg+1yiCytIYvPu9Qm/55wQp88j+wrx2/TWNZ3/bPFXiufzE2Oiai9p/6I8vZXiPx+sNK8L/ALRHwrvLxLyf7RBqlpBeXN1Pd/Z59kGze7u/+2n/AG0pVMPOEbk08whOfJA8R0T/AIKQ2f7Nvxv+IXh3xD4f1Q+GbzxJe6tp7w7JNQ0+S6n8+SCf5/Lf948nz+Z/20rq9Z/4LF/DqXT5/wDhHNN8QaxqWz9wk0CW8e/+4/z18vf8FHfgjr3hf4wax4h+wXk+h65P56XiJ5kcb7PuP/c+5Xzn8KrW41TxBHDa21xdTyP5aJCnmSSV0U6n7s5cRh4c5+qP7Ef7cOpeArbxv4q1jwne69p/iLW4L/WrnSbr/SNHj+yxwI6Wr/6yNI4E8zy5PM/2Hr7d0v8Aax+H+t6Xa3kHiWzeC8hSeM7H5R+n8Ffn/wDsteCLz4I/BvUr/wAQW0kd1rDpJBpuz/SJPk+RNn/PSSvoT9m7zrX4AeDobh45J7PSILR3hfzI98CbP3f/AHxWdOn7SZtUxE6NGB9Ef8NN+BD/AMzJZ/8AfEn/AMRUln+0j4B1BZNvi/QITb/6z7ReJb7P++8V5P5r0S/6V975/wDfrT6mc39qT/kPoDS/E2na6v8AoN/Z3n/XCZJP5GtDNfK918PtBv7iSaXRNLknkTy3m+yp5kn/AAOprLwrDo4hGn3muaX9nj8tEs9XuoI4/wDgG/y6PqbN/wC1Ifyn1I3zUbflr5sstV8TaTFGln418SJHE+8fafIu9/8AsPvg8yu3+Gnx2ju9YsfDPii4W3164XNleBfLt9Z2ff2/3J+5h9BvTIyE56mHnA6cPjIVXyo9eooHSisTrCiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKAEB4rwzx/wDGvUvFfiq6sfDF99h0fTwI5dXtjBcPeT79kkMAkDx7Iz99z/GNnBQ1qfH34n3Buv8AhFNDuLi11CdPM1DUbfbnS4eyDP8Ay3kyQn9z75/gD8LpemW2jafBbWsMdra26eWkKJ+7jrqw2H5vfmeVmGM5PcgULnwZZ6xcRzatNqGvzx/cfVb17vy/+AP+7T/tnHWlFElrbbIkjjj/ALiJT6K9KyPH9rUmFFFFBAV8jf8ABZCXxDoP7Pfh/XvDlzqFjPo+t+XezWyeZ5drPazxvv8A+mfmbK+uaZLEl1byJKsckcn7t0f/AJaVFSnzwNqVTknzn4zfDT/gpF8Wvhrpcdmut6f4jsY/uQ63ZfaPk/ub08uTy69ii/4Kdzaz4Hk/4RfRNP8AD/i7f+//AOJQn2O3/wBvfv8AMfzP7nlpX1l8X/8Aglr8Gfi/qE9/L4buPDmpXH7x7nQbr7J5j/8AXD/Uf+Q64fwl/wAEW/hv4X8QT3LeJPGl1aSIkf2Z54I//H0SuD6pM9j+06B8R+LfGXi39ofxpa/2teax4u1yT93a2aJ5n/TN/IgT92n/AGzjr9T/ANjf4far8Kv2XvBfh7XLP7Dquj6d5c9tvST7P88kmz5P9+tX4N/s3eCfgFp/k+EfD2n6XJInlz3n+svLj/fnf949dxXXh8PyHm4zGe2CiiitzjCiiigAqDVNLttZs/JuofMj3pIn/TN0+46f3JP9up6KAOq+EXxr1SDXx4f8U+W8c8n/ABKNXj+T7aP+eE6fwTj+/wDcf/Yfg+0gfLXzTf2EOqWcltcJHPBcR+W6P/y0rZ+GPxdk+EVnFpninVLm88P+Z5dnq93Jvl07+5DdSfxx/wByd+f7/wDfPnYjD/bge1g8w5/cme/UUUVyHrBRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQA1hkV578b/ikfhvo0Njpwik8Sa4JIdJikjdo43VSxmm2c+SnGTxksidXroPiN8RNN+GHhiTVNSm2Q+alvCi/fup5G2Rwp6u7kCvALFr7WtVutc1vnXNYRPtUSzvJb2iJ9yGD/AKZx/wDkSTzHrbD0+dnLjMR7KBJomiR6RDMxYTXl1N9qvLgR+XJdzP8Afd6t0UV6x86FFFFBmFFFFABRRRQAUUeV5v3azrrxlo9hefZrjWNLgn/54vepHJQFjRorOi8W6VdSbItV0uST+4l0lW4tVtpPu3FvJ/uTpQBNRTIpUl+68cn/AAOn+V5VABRRRQAUUUUAFMliS6t5ElSOSORPLdHT/WU+igC34E+LVx8E4bPTrizmvPCP+pDxHdJoC9sr1eD3/wCWf/XP7n0Ba3UeoW8c0LJNDIm5HRsq9fOlO+Hni/VPhF4oeSOa4vvCd3/x9aVs8yTT3/572v8A0z/56Qf8Dj/55ycOIw/24HsYPH/YqH0lRWb4a8T2HjPRbXUtLu7fUNPu03w3MD745B7VpVwnsBRRRQAUUUUAFFFGcUAFFGaM4oAKKKKACiiigAooooAKKKKAG53dazdb1yz8M6RdX19dQWdhZxPPPPK/lxwon33d+3/1q0gAa+evi746/wCFu+I5tJtxnwpos5juVnhymuXSeW8ez/phA+P9+T/rn+8unTc5mGIxEaMOdlDX/FV58UvF/wDbl5HcWun2u+DSbF3/AHaJv/4+nT/nvJ/5Dj/33p1FFerTp8h8xUqTnPnmFFFFaEhRVXWdes/DmkT3+pXlvY2NmnmT3NzP5ccf/A6+W/j7/wAFO9H8OW89h4Bs/wDhINS/1aaleI8enx/7if6yf/xyOgunT5z6rurpLW3kmleOCCP77u/lxx14R8X/APgpF8LvhVHJDb6xJ4q1KP8A5dtET7R/5H/1H/kSvz/+LXxp8YfGm8km8VeJNU1nzH3/AGZ38uzj/wByBP3dcHdVh7Q6qeH/AJz7F8Zf8Fmrz94vh/wBbwfP8k2q6p5n/jiJ/wC1K8d8b/8ABVT4zeI/M+y6xofh+OT+DTdLT93/AMDn8yvCLmse/uktf9a8cf8AvvWHtJm/1eB03xB/aW+IvxGjkTXPHPizUoJP+WL6o8cf/fCfu68yv7WG6uJHlhjkkk++7p5nmVbu9etpZNsTyT/9cUeSsmXXnluPl03UP990SP8A9nqTosSRWFtayb4obeOT++iVP9reI/LNJH/uPVWXVJvM/wCPO4/77So5dUeL7tneSf8AfH/xdBoW/wC1Ln+G8vP+/wC9d98L/wBrD4nfCDy08OeOfEmmwR/ctvtv2i3/AO/D+ZHXl8usv/z56h/3x5lFrr1tj999og/67QPHQZn2r8Of+Cz/AMUfDnlpr2leF/FUEf33eB7C4k/4Gn7v/wAh17/8Of8AgtT8P9f8tPEfhvxJ4cn/AI3h2X9v/wCOeXJ/5Dr8w9PlS6/1TxyR/wCxV6HpW3tJnP8AV4H7gfBv9pbwN+0FZ+d4P8SafrEkaeY9sj+XeR/78L/vK7ivwd0HVLnRtUgvLC5uLG+t/wB5Bc20729xb/7jp9yvsf8AZp/4K5eIfBEEGlfESwk8VabGnl/2rbbI9Uj/AN9P9XP/AOOSVdPEGFTB/wAh+jdFcl8G/jx4S/aC8L/2r4S1i31W1/5bon7u4s/9h0f94ldbW5xBRRRQBD4W126+C93qeqaDZXF3aag32u/0mF9nnyfxzw7/AJEn/EJJ/GR/rK91+HvxC0v4m+FrXWtFuWurG6+7kGORH/jR42G9HTnKHkV4hVdNb17wDqH9q+F5Ld7sSeZe6bcyeXb6wn/PPf8AwT/3H/77+SuTEYfm1gepg8w5fcqH05RXP+BPHth8QtAS+sWkXaNk9vNxPav/AHJE7PXQV5x7gUHpRnNUda16z8OadJdX91b2drF9+WZxGgppN6IL23LI+YdvwoJyP4ePevn3x9+3joOhRCDwza3HiC4J2NNIHtYI+O29N7+vTH+2K+aPi3+1f4g+JYns9Q1S41JLeb95pejp5cdv/wBd/n/1f/Xd6+ly/hHH4n35/u4d5aHh4ziDDUfdh7zPsL4nftf+D/hxHNDb3n9valbt5b2tgyyGN/8Apo+difia8O8T/t++KbjVpGt10HQ7Pcfs8MsPnSsvqzO6An/dXFeMeCfhf4w+Kvlvaw/2dpVx9y8tnTy9n+3PIn/oiN/+uleleGv2H9Bi0/drF4ZtQkOZZba3TbIf9+ZZZX+ruTX1WHynJcCvfj7af4HyWL4nxE3pLkPuqiiivy8/SQooooAKKKKACmlcGhDgV5z8cfi4/gGzi03SGtLrxTqgAs7SV8LHD5iJJcyekcYk9PncogPPDRnUqcquzC+PXxQm1DUpPB2izmGbYsmtXO1/9EtZEk/cxuOPPkx/2zjO/wDuZ4qw0+HRtPgs7WGOG1t0SCCFP9XGifwVHoGipoGneTHNcTPI7zzTXL+ZcXDu+93d/wDnpVqvUw9PkgfO4jEe2mFFFFbnKFcr8X/jJ4e+CPhOTWPEF5Hawf6uCFP3lxeP/cgT+OSsP9pX9oyw/Zz8Hx3ktt/aWsag/l6dYI/l/aH/AI3d/wCCOOvz9+KvxL174v8Aiy41vxBfyX19J/qE/wCXezT+5An8EdZ1KhtTp85sftLftQeIf2ktY/0//iW+H7d/MstER/Mjjf8AvyP/AByf+Q4/4K8lvulJ4t8UQ+HLePclxdXVx/x62dsnmXFx/n+/XJeMrXWL/wAF31zqU39myeR5iW1nP/q/+uk/8f8A6LrnO6nTDxR4303w4JElm8yeNP8AUwp5klZOqf2xqdv/AKO9npscn8b/AOkSf/G64u1/5Ace7/nh8/8A3xXoVrL5uj2r/wDPSFJP/HKWp0GBL4c8r/j6v9Qvv99/Lj/74Ty6zpdBs7D/AFVnbx/7iV0V/WPfy+V9793RqBmzdKqyV6V8NP2UfiX8abfzvC/gnxBqtr/z8+R9nt5P+Bv5cdeveGP+COnxj8Rx77z/AIRPw/8A9fmqeZ/6ISSl7Mz9pA+TZutV6+z5f+CIXxUlH/IyfD//AMCr7/5FrG8Uf8EW/jHoNvG9nc+C9c/vpbao9v5f/f8Agjo9nMPrED5NiqeL+tem/Ev9iP4tfBzT5LzxB4D1y1sY/v3NsiX8cf8AvvA8myvL4pfN+7VamgS6XbXX3oY/M/vp+7qa10ua1/49by4j/wBib/SKkjq1D0rMBlhf39rJJ9qto54f+e1tJ/7JW5Y3UN/b7438yOqlr0oudGhv5N6vJazf89oX8uSgDqvB3i3VvAfiCDVdD1LUNH1W3+5eWc32eSOv04/YK/bch/ab8LyaPrn2e18caOn+lIn7uPVIP+e6J/6MT/lnX5SxapNo0f8Ap6eZbx/8vMKf+hpXVeCPGV/4S1zTde0HUpLHUrN/Psry2f8A1dVTqchz1KfOftxRXjX7GX7XNj+1L8P43uPs9j4u0tEj1ewT/wBHp/0zk/8AIf3K9lruPN+AKKKKCSpb2Vxoni618QaPcfYdYt08h/8An31CD/nhOn8af885P9ZH/wB9xyejad+1j4NfSrqXUtTj0XUtP+S50q5P+lxv/sL/AMtkP8EkeUOfy4SuV+KHwqs/iXo/zf6Dqtun+hakieZJbv8A+zx/7FTHC0Z1o+20gdVPGVqMPcL/AMTf+CgF1NbsvhfT47GAITJe6oAXT/cRH2f99yCvmvxX8YtU+KeoWt5JNqni2bzH8i8uX/0eP/rh8nz/APbCN66r4T/srt4m1OSLxxef8TjS38xE+S4kk/6bwb08hI/+2fmR/wAclfQfhfwBo/g6R5tMsLe3upE8ue8f95cXH+/M/wC8evvMLisuwcbYCjd/zSPjM0zfFSnyVpHzz4X/AGWvFXxBj3a9c/2bYyJ5ifft/wDyAj+Y/wD20kT/AK517R4D/Z98N+A47VorOO6urdPkmmRPLj/20hT92n/fuu3U0jLmufE46viJfvZHhTxE5jqMZoorlMT3yiiivzs/fAooooAKKKp61rFroGmz3l5NHb21qhkmlfoi0AYXxP8AiJZ/DPwhPqdxHJczL+7tbOF0E+oTfwQx7zy5rwq0F9fanfapq1x9q1XVH8yd/wDlnZp/Bap/0zj/APjj/wDLSnar4kuPit4nj8SahDcQWsaZ0WwuYfLk0uGSP95I/wD03k/8hp8n/PSrFejh8Py++eBmGM5/cgFFFFdZ5wUy6uksLeSa4eOGC3TzHd/+WaU+vnf/AIKE/Gl/C/ge18Gaa/l33ihHk1F/+Wlvp38f/fyT5P8Arn5lBdP3z5l/aH+L7/Hj4sal4hXzP7N/49NLR/8Alnap/H/20+//ANtI/wDnnXles6y8t5JZ2CRz3Uf+v3/6u3/3/wD4ip/GV/eX9xHo+lzSWt1eJ5j3iJ/yD4P7/wD10/550+10uHRtPjtrdPLjj/8AIn+2/wD00rjPRMew0CHRhO/mST3Vw/7+ab/WSf8A2v8A2Kx/iDa/avCepJ/z0hrprmuf8Zb/APhF9S2/6z7LPs/74pageL2H+laWn/TRK7vQf33hfTd3/Pqn/oFcJpZ8qzjT/nn+7r6W/wCCe37L7/tS+KNKsLz7ZH4V0O1SfWJoX8vzP+Wcdrv/AOekmx/+2cclKmbVNg/Zp/Ye8YftVXElzpv2fR/Dlu/lz6xeJ+73/wAaQJ/HJ/5D/wCmlffnwB/YA+GnwCs4ZrfRLfxBrkf39V1WBLi43/7Cf6uD/tnXr3hvw5YeEtDtdK0uzt7HTdPhSC1toU8uO3T+5V6uqnTPLqYicwooorQxCiiigArxf9pb9gX4b/tN6fM+paPb6P4gk+5relQpb3kf+/8A8s5/+2le0UUF35D8X/2uf2H/ABb+x5rlr/bL2eq+H9UneDTtVtv9Xcf7Dp/BJ5f8FeTw9K/dn4ofC/QfjJ4H1Lw34msLfVdG1RPLnhf/ANDT+5JH/wA9K/Fj48fCC5+AXxs8TeD7zzJJNDvXghmdPL+0Qf6yCf8A7aR7K5alPkPRw+I5zm7XpVuL+lVLXpVuL+lYmhei/wBZTIv+Kc8yZf8AjxkfzJ0/59/9unxf6yrcdXqB6N+y18S/+FS/tCeDvEPnSQWtvqKR3To/+stZ/wB3J/2z8t9//bOv2Ar8MbC1ew1COH/mG3n7v/r3d/8A2nX7Lfs0/Eb/AIWr8A/CuvSf8fV5pyR3X/XdP3b/APkRHrfDnHjDuKKKK2OMKKKKAMfxl4Nh8ZaXHC1xeabdW7+fZX9m/l3FnP8A30/+Ik/dyVN4Y8eeVqdroOuTW8PiCSB3gdE8u31RE+/JB/7UT/ln/wBc/wB5WlWf4o8L2Hi3T47a/h8yOOdJ4H/1clvOn3HR/wCCStsPiJ0tzz8wy+GIgdRnmiuP8OePLzS/FEeg69D5clx/yDtVT/j31T/Yf/nnP/sf8tPvp/y0jj7AV71OpGceaJ8TiMPOjPkmFFFFaGJ75RRRX52fvgUE4oozQA0HNfOfxM8eL8ctfjht5IZvBmkzb0Kl/wDiZ3sEmd5/56QR7Pk7PJ84+4md/wCPXxNk8SX9x4N0W48uLJj1y/t7rZJYf6t0tU/6aSI+X/55xn1dK5eKJLW3jSJI44408tET/lnXdh8P9s8nH4y3uQH0UUV3HihRRRQAV8T/APBSe/h0v48abc3D+XDb+F0kd/8At6nr7Yr4O/4KgRTap+1J4KsF8yO0/sFLu6+T/WRwXU+xP+/jp/37rOobYf4zw/RtPmit5Lm6Ty7rUH8+dP8Ann/cT/tnSXVaV3WbdVzncZ911rF16LzdPnR/9Xseta6lrNv/AN7HspageC6NL5unxv8A89HeT/yJX6xf8Eg/Bv8Awi/7Fem3jJHHP4g1S+v32P8AwJP5Cf8AkOD/AMiV+UNh/qp0/wCec7x1+m//AARv+Kljf/Ae68Etcxx6po91PqUFs/8Ay0tZ3+d0/v8Alz7/APv5HVYf4wxfwH2PRRRXWeWFFFFAHl/wH+N3ir4q+MPE1hr3wz1zwXY6G/l2V/f3SSR6p8/+5/6L3x16hRRQaBRRRQZhX5Z/8FkIki/bAtXXy/Mk8PWu/Z/vz1+nfi3xbYeBPC99rerXP2XTdLgee6m/55xpX49ftw+PLn4rfGSfxDdeZHJrm+eOGb/WW8G/y4E/7Zx7KxxB04f4zyuHrHV60rNtavxf0rlO8tw9avW3/LOqkX9at2vWgCa6ieW3kVf9Z/B/v1+o3/BNOwuY/wBkvQ7y4eTy9Yurq/tUf/lnA7+X/wCyb/8AtpX5g2thNrNxHbWaeZdXjpBAn+2/7tK/Zz4aeCIfhp8OPD/hu1/1Gh6dBYJ/008tPL8ytsOceI+E3KKKK6jjCiijH7zZ/wAtKACiiigCHU9Lh1nT5La6Tz4Lj76VheDvFN/4R8UWvhXXL/8AtWTUEnn0S8f/AI+LiCDy96T/APTSPf8Af/5af9dP9Z0deA6r8Qf7Z/4KQeGdHX95BoeiT2j7H/1c88Ek7/8AkNIP+/lbYepOE7Hn5lh4VaM3M+lqKKK+iPgz3yiiivzs/fBqnANeZfHL4ryeCbeHR9J3TeJNY3CIoqyf2bHz/pUiHjYmPkGPnfA/vGvTQdwr4r8NfF+28UftffGjwlf+X/wkHh/VLWSCZk/eXGnPaQbI/wDtnI8n/fz/AKaVvh6fNM5MZWnTp80DuNG0pNF0+OFXuJ5P9ZPczP5lxcP/ABu7/wDPSSrVFFeqfNBRRUN/f22lx77qa3gj/vzP5dAE1FMtbqG/j3280dxH/fR/Mp9ABXzb/wAFDvginiPw3a+P7NJP7R8LwPaXuz/lppzv5nmf9s5Pn/65+ZX0lTLq1S5t5IZUjkgkTy3R/wDlolBdP3D8srus2+616J+0P8IJPgZ8WNS8PfvJNN2fa9Lmf/lpav8AcT/rpH9z/wDeV53fda5ah6Jn3XWsm5/1kda1z/q/wrJuoqjUDwm1i+y3F3D/AM85/nr0b9mn4tax8FvHFrr2jTeRquj3rzwI/wDq7hJPvwP/AH45N/8A5Erz+6/5GDWP+v563PBth9v0e6+fy57e93wP/wAAjp6nQfrx+yr+2v4V/ag0eOG3ePR/FVunmXWiTT/vI/8Abgf/AJbx/wCXr2Svwui1T/TI3/eWOpWb+emx/wB5H/00R/8A2evoH4N/8FVPid8ILeOz1aaz8cabH/Bqv7u8j/7bp/7U31t9YOCph/5D9UKK+MfAf/Ba7wBrMcaeKPD3iTw5P/G9siX9v/455cn/AJDrv9B/4Kx/ArWd+7xdeWP/AF+aRdR/+yVXtYGH1eofR9FfO+s/8FWfgVpce9fGFxff7FnpF1J/7JXF+Mv+CzXw00u3/wCJDo/ijxHP/B/osdhH/wB9v+8/8h0e1gHs5n15XM/Fr4y+G/gj4X/tXxNqVvp1r9yBP9ZcXj/3ET+OSvgr4g/8FY/iF48t3h8P6bo/g6CT/lsn+n3n/fb/ALv/AMh14t4j+I1/4o1C417xRrd5qV1/y3v7+fzPLT/2T/cqPaGn1d/bPcP2jP2r9Y/aM1yNG/4k/hXT3eS103z/APj4f/nvdP8Axyf7H+rj/wCmlfG/xL8Wp438cXV5F5n2WP8AcWv+4n+d9W/iN8Wv+Et0/wDs2w8yDTf+W8z/ALuS4/2P+udcrF/SsPaHdTp8hdtavxf0rOh61pWvWpNC1D1q9HVGHrXo37Of7PuvftLfEiDwxoPlwSeX597eTJ+70+Df/r3/APaaf8tKvUzPTP8AgnZ+z7f/ABp+PGm6x9m8zw54LvUv9Rmf/nun7yCBP78nmbH/AOudfqFXM/CX4S6D8Efh9Y+G/D9nHa6bZp/20uH/AI53/vySV01dNOnyHm1KnPMKKK4f9oL4tXnwg8DwXOm2Eeq6xrGowaTpdtM7x28l1P8Ac8x0/wCWdaGdP3/cKNr4jufih8aPE/htrm403R/B8Fr58MM/l3GsT3SeZvd/9YkEcfyfu/8AWSeZ/wA866CX4LeEpbfyW8PaX9zy9/kfvNn+/wD6yvzu/bI+Kvj/APZ9/aYg8Q2Hiq4/4Sa80i1kvZoYPLs7j/WfuPI/54R/8s/M/ef9NK5W1/4KyfGPxH/oDappdr/yzeZNOTzJP/HKw+sQOr6nM/RXwH4yfw5+0Bqvw9W/uNUtbfQYNdtXuZvtFxpe+fyPId/9Y8f3Hj8z/ppXplfnr+x5LrfxQ8Ya5eS+KvEFj4ivLLz01iGf/SI33/xp/q3j/wBiSvtr4D+KNY8W/DO1m8R/Z/7cs557C98lP3cjwTyR7/8AtpHsf/tpRTqfYJxGH5Ic52Hf5q+OP2S7+5+Mn7b+peKon/cxz32pb/8Aph/qIE/79ulev/tr/Hh/hB8Nv7K0uaOPxF4o3wWv/PS3g/5bz/8AbPfsj/6aSR1zf/BMXwGml+DvEmvbPLS4uoNNtf8ApmkCb3/9D/8AIdduFhzVY3PJzOp7LBzmfUlFAor6I/Pz3yiiivzs/fAPSvyL/bZ+K7fsuf8ABW7WPFUieXptwlk+obE/4+LKa1gjnf8A2/L2b/8AtnX66V+f/wDwXU/Zmj8WfCzRvihptv8A8TLwvImmantT/WWU8h2O/wD1znf8p3rSj8ZhiKfPCx7Ta3SXVvHNE8ckEieYjp/y0Sn18xf8E0/2oLP4l/C+x8E6peRx+JvC8HkQI/8AzELJP9XIn/XP7kn/AGzr6dr2D5mpT5Dh/wBof4lTfCD4R6lr1v8AZ45Lee1g865/497Pz544JJ3/AOmce/f/ANs62dG+Gmiaf5dy1tHrF9/rP7Sv/wDS7iT/AG97/wDtP93Xy9+1N4o8SfH34R/Fh7+b+yvB3hue60my0q2T95rD2s/lzz3T/wDPPzE/dpH/AMD8yvirwl+3X8V/gjo8elaD4tvI9Ks98cFteJ9ojt0rD6xA6fqc+Q/UH9pG10f4VfCfXPFthdWfhXWNHg8+1vIdlvHeT/wQTp/y3jk+5skr0rQdUfWfD9jeSw+RJeWqTum/zPL3p5lfkTa/H3xh+0DqEE3jDXrzXPs/7yCGZ/8AR43/ANyvvz4N6Vf/AAv8WeB/7Jv9Q/4RnxQnkajpVzdeZb6fP9hknR4N/wC8TzJE/eJH+7/eUvrHvh9TnyH0JRRRXQcZwP7QX7PulftD+E47C/mk02+s38yy1KFPMks3/wDZ45P7lfA3xk+DfiT4GeIP7N8R2fkfaP8Aj1vId8lnef7j/wDPT/Y/1kdfpvWP498B6P8AEvwvPo+vWFvqWm3H34Zk/wDH0/55yf7dZ1KZtTqch+VN11rJuq+hf2oP2Htc+CPn6xof2zxB4R/1juieZeaWn/Tf+/H/ALcf/A/+elfPUsqXUf7qSOT/AHK5zu+M8T1791441hF/571sfD6XMWpJ/wA850/9Ar00fseXnjz4fz+MPDupW91rFxezxz6C/wDx8Xmz+OD+/J86fJWN8Pv2ZPiX/wAJRqWj/wDCAeMI9S/cfuX0ieP/AJ6fx/6ujU09pA5nWdLh1S38uVP9X9x/+edcdFYax9nkml8u6sf38iTP+7kjRH8v59lfaXw+/wCCU3xO8Yyb9ZfQ/CtrJ/z83X2u4/74g/8AjleSXXw0/wCFLfHy+8K/bP7S/sOfUbB5vI8v7R88cn3KmoZ+0gfPWqyzWv8Arba4j/20/eR/+OVnS69bxD5n8v8A308uvV/jV4NTwvrEdzap/oOoSeW6f8+7/wDxuSvOL7rUmhStdZtpf+W0db+g3Ty3H+j215P/ALkHl/8AodZ2l/0rrfC8n+kUAbmg6Xfy2/nS/Y9NgjTzHeZ/M+T/AHK4T4q79e8t7ibUPIjg8+CGZ/7j/fdP9XXceI9U837LYb/9Z+/nT/noiVgeKIkutc052TfHInluj/8ALT546vUumc3HVuL+lftD4o/YP+DPjfz3uvhv4TjkvE+eaztfskn/AH3B5deA/FX/AIIoeEtZ8ybwX4n1jw/P/Bbakn2+3/77/dyf+h0/YTOb65A/Oe06Vetete0fFr/gm78VPg3qljDLpWn+IP7Qn8i1fR737RJcP/1wfy5P/If7uvpD9lr/AIJBw2vkax8VbmOeTZ5ieHrCf93H/wBd50+//uR/9/Kn2cyqmIgfKf7Pv7L/AIz/AGltY+zeFdK8+1jfy5tSuf3en2f++/8Az0/2I/3lfqb+y1+zJo/7LXwvg0TTUjutSuESTV9S2eXJqk/9/wD65/8APNK7vQfDlh4S0eDTdLsLPTdNs08uC2toEjjj/wCAJV6uqnT5DhqYjnCiiitDEK8a/bm1l/CXwXsdeW8s7GPw/wCJdLv3ubx/Lt408/y33/8AbN69lrzb9rr4I3P7Rn7OHirwZYXlvY32uWqR2s1z/q43SeOT5/8Avis6nwG2HqclSB8ofHjwR4D/AG/7eC/8F+NvD8fi3S4PIezmukk+0Jv/ANj/AIH88deF6N/wS6+Klt4kk+0Q+G4LX/n5fVP3f/oHmV5R8bv2LfiX8AtQkh8TeD9U+yx/c1Kzg+16fJ/23T/2psqj4D/aH8VWuj/8Iw2t+Zod5A+/7TAklxb7P4Enf94leX78D6Lkpz98+3fCXjf4e/sKeG7qGfxJZ+LvGl4nkPbab/pH2f8A2H2eZsj/ANuSvev2Lfi1oOqfs+eI/E/2m8g0e31e+v725v08uTfsjnnfZvk2R+Y7+XH/ANc6+A/gZ+xb4/8Ajd5CeHfDEmm6V/0Er9Psmnx//F/9s99exeLb/Svg38K5PhX4S1i41yx/tR9S8Q6x/q7fVLrZHH5ECf8APCPYn/XTy62w/Pz85xYzk5OSBlfF/wCLV58Y/iBqvifUv3cdx+7sYdn/AB52qfcT/rp/HJ/00kev0C/Zc+H03w1+AXhvS7qHyL77L9rukf8A5Zzz/vHT/wAf2V8jfsKfAL/hb3xQ/tvUoY5PDnhOdJJ0mTzI7y+/1kEf/bP78n/bOvvjNfR5bh/tnwHEWMhOX1WAUUUV658ue+UUUV+dn74FYPxB8Bab8TPAus+HNYt1utK1y1ksrqI/xxyLsNb1FAH893xF8JeIP2Qf2kNU0u3vLix1/wAD6u8drebP9Z/cf/rnJG//AJEr9H/2PP2r9N/al+G6Xn+j2PibT08vV9NR/wDj3f8Avp/0wk/+wrQ/4K0f8E65P2hPD8nxE8F2Uk3jrR7ZI7qwiPOuWqc7EH/PdOqf3/uf3Mflv8IPi/r37PvxIsfE+gv5Gq6e7wPDMn7u4T+OCdP8+XXdh6h4+Mw59Z+Lf2tPAfwl+MHxN8AePtSt49L1DXrrenkPJ9jS6SOTY+xP9XJ5+/f/AMs68P8AG/8AwTih+INxJf8Aw5+JHgvxBpUn7xEub5PMj/33TzKvftBfs3Xn7f8A4w1L4o/Cq80/UtU1CCCTW/CV5dJb6po86J5Hyf8ALN45Nn3/AJK+ZdU+Evj/AOA/jCO/uvDHijwrrGn/ALxLl9LePy/+B7PLeP8A8h1hU54TOrD8koan1f8AD79lXwf+zdcQX/xQ+JHheOON/k02wn8y4vP9j/np/wB+469K8G/tr+Hvjd+0Z8PdK0vRdctYLPxCkenTXKJbx/ckjed03+Z/q/kjT/ln5lfJ/gjwl8RP2oLy11W10TxB4q1XUIUkeaGy8u3j/wBx/wB3BBH8n+xX2Z+xl/wTOv8A4c+LdK8Z+PL+OPVdLn+12Wj2E/mR27/355/4/wDcj/d/9NJKKfPOoGIqUaUD7Kooor1T50KKKKACvOfi1+yh4A+NNxJc654bs/7SkTy/t9n/AKJef99p9/8A7aV6NRQaHjXwM/Zpm/ZQ0vVYfC6WfiaDUL37W73+y01SNNkcezz0Ty3j+Tf+8jT/AFkleh2vxV0uO8js9U+2eH7qT7kOqp9njk/3H/1b/wDbOSuipksSXVvIkqRyRyffR0oALW6hvj/o80c/+4/mV+WX7Utj/YP7dviZP3n+ka3dSfP/ALdr5lfpVdfBrwlf793hvQ/3j+e+yySP5/7/AMlcP43/AGD/AIXfEHxBPrF/4euI9YuH8x7y21S6juN+zy/7/wDzzrOp75VOpCB+Zfx9sPN8B33/AEzeCT/x+OvC7+Gv1w8ef8EsPAHjewntv7Y8YWMFwnluiXqSf+hp5leZf8ONPCst5vb4heKPJ3/c+xQeZWHJM6qeIgfmtYS+XJXVeHJf9Ir9G9L/AOCI/wAK7C4je61vxxdeX/B9tgjjk/8AIFdxoP8AwSh+C2hTxv8A2Prl1J/0863P5dH1eYfWIH5ia6f+JxYv/wBOrx/+Px1m6poGpeLfEGlWeh6bqGsalsn8uzsIJLi4kf8Ad/wJX676X/wT2+DOmXG5fAGlzyf9PM89x/6G9em+DfAeifDnSvsfh/R9L0O1/wBX5Nhapbx/+OVr9XD62Y+heN9Y1nQ7X+zfDGoRyfZU3zaw/wBgj37P7n7yf/yHVr/hF/EWvR/8TLxD9hj/AI4dHg+z/wDkeTzJP+/eyumorY4zL8OeCNN8L3E81nbf6Vcf6+5mne4uJP8Agb/vK1KKKDMKKKKACiiigAooooAKzv8AhDdH/tH7S2laX9q/57fZU8z/AL7p+veIrDwlo8+papeW+m6bZp5k9zcv5ccaf79fGv7V/wC3V/ws/T5/Dfgp7y10O43x3upOn2eTUE/uJ/y0jj/2/wDWSVmaU4OZsfth/tm/8JTHdeEvBt5J9h/1GqarC/8Ax8f9MIH/AOef/PR/++K+d/CXhe/8ZeINN0TRbbz9S1SdLS1h/wCWe/8A+Nx/f/65x1zeqazbeHNLkubp/Lgj+4if8tP9hK+mv+CPV/D4y8UeP9SvLe3/ALV09LKOy+T95ZwT+fvTf/008j/yHRh4+1rchWYVHh8LOtA+wPgt8KrD4I/DPS/Demv9oj0+D9/cun7y8n/jnf8A66SV1R5FANFfVpcqsfl9SpOc/aTCiiimSe+UUUV+dn74FFGaKADqK/Mn/gsB/wAE4jbSal8XvAen3E3nv5/ifSrdN+31vo0/9GJ/wP8Av1+mobNMlhSeJlZd6t95fWiL5djOpT5lY/m68JeMtY+H/iS11vw/qV5o+q2f7yC8s38uSOv0H/ZB/wCCm2lfFqS18N+PPsfh/wATSbILW8T93p+qP/7Qk/66fu/7n/POvmH/AIK//BjQv2RP2y30fw3pcln4V8QaLDrqW6NI32OZ57iOZIP+mfyR/J/B5lfPsV1DqlnvieOeCSu6nUPLxGHf2z9zqK/MX9lT/gpZ4n+AWn2+ieI4bjxh4Vt/3cCPP/xMNP8A9x3+/H/sSf8Afyvu74Bfth+AP2kY9nhnXo5NV2eY+lXifZ9Qj/4A/wB//fj311U6h5tTDziemUUUVoYhRRRQAUUUUAFFFFABRRRQAUUUUAFFFHlPQAUUS/uvvfu/9+qN14o0qw/4+NV0+D/rtdJHQBeorj9U/aM+HujSbbzx54LtZP7j63a+Z/6HXMaz+3X8GdBuNl18TvB8cn9xNRST/wBAoK9nM9XorwnWf+Cm3wK0b73j/T5/+vayurj/ANASub1n/grv8ENG/wBVreual/156JP/AOz+XWftYB7OZ9NUV8h6x/wWp+EthH/oum+ONS/646dBH/6HPHXN6z/wXH8GWsf+geA/Fl1J/cmurW3/APZ5KPawNPq9Q+4KK+ANU/4LrQ+X/ofwxuPM/wCnnW//AIiCufuv+C43iq5T/R/h34btm7mbU57j/wBkjrnxWYYbDU/a15KMe7Pb4e4TzfPcYsvyihKtVab5YrZLdtuySWmraV2le7R+j9eUftF/tfeGP2eLf7PdP/bHiSSP9xo9s/7z/fnf/lhHXwF49/4K3fGT4m6K2laWND8NvI5dp9DsJDeMm0gqHmklKjByWQK2VHzAZB8IHj7xZp9xNf3a3U4aTzp5Lq2OJHPAZ3wGzkjv1xXzL40wW8YTcf5lHT876eh+5U/ovcUcqhisThadZ7UpVn7Rt7JJQcbyei961+p9E/Gn4++J/wBofXI7zxNeeZa27+Za6bbfu7Oz/wCAf8tJP+mkn/kOuL17xHZ+EtLkvLyby49/lp/00f8AuR151YfHmaK02z6dDJNyd6SlE3E9cYJXgnhSBnt6cN4x1q+8Va/byanN9r8t/wB2uz/R4/8Armletgs2wuOi5Yad7brZr1T/AOGPzbjDw64g4UrxoZ5h3T5r8sk1KMrb8sotrs7O0kmrpHpvhKLVfj58QNN0fS0jur7ULpLS1RH/ANHs97+X871+oX7Cv7EifsjaHqtxeax/bHiDxAkEd75KeXZ26J5mxE/5aP8Aff55K/Or9lDWf+Ec8ceHLxUkk+z6jaybET/WfPHX7JS8y19NlOHh/ER+R8V5hW5IUIfAFFFFe8fChRRRQB75QeaKK/Oz98Iwig9DTicdKyfFPi7TPBejTahq19a6fZQffmuJAiCvCviZ+3zpumedbeFrBtWkCfJfXHyWu/t8v33+nyfWu/A5XjMbPkw0HI48VmFDDx560j6Fe5SKFnZlVU5YnjFeSfEj9s3wf4GHk2d0fEN6yZRNP/eQf8Cm/wBWPzr46+KX7TetfEzUJE1LWrzVUjTy5LSxk8jTE/66H/UJ/wBtJPMqHwl8FfG3xLj+W2/se1j/AN+3t5E/67unmP8A9s44/wDrpX2eF4Pw2G/eZnV/7difLYzizS2Fj/4EeK/8FVPDGtftm+OfD/ia3k0PTtf0vT5NNtdER3kuNQQyeZ+7f+N/+2eyvz9upb/4fa5PDdQ3Gm3Vu8kc9tcp+7kdP/If/A6/cr4c/sl+GPBCSfaE/tT7R/r4XT/R5P8Af/5aT/8AbeSSvyR/a+ihtfjx40ht/Ljgt9bvo0RE8vy/38leTn2HwUJQnhIcg8jzutiJyp1veOD8OeMrPxRHJ9nmj8+P78O+tLzXtbiOaJ5IJ7d/MR0fy5I3/wBh6x/ByafIi/2koa3V+WIz+g5q3rGuaeJP+Jbb3yruB/0q4DrjaBwAN+Qc/M0jZ9BXxmY5vg8DpiJ2fZav7l+b0P2Dgzwt4k4qvLJcK5007OcmowT6rmk0pNXV4x5pJNNqx9K/AL/gqV8SPhBcQW+vTR+ONDj/AHbw6k/l3kf+5df/ABzfX2t8Jf8AgpP8Iviro/nS+J7PwrfRp89hrzpaSR/7j/6t/wDtnJX5Ay6lMZEJbbv+6Mff/P7345qvqNq975XneYvkSbxxj5sEc8e5rzP9dMOtXTny9+XS3ffY/QJfRhz+X7uOMwjq7ezVZ8/N1jb2duZbP3rXW5+zWof8FBfgnpckiS/E7wnJJH99IbrzP/QKwNU/4KlfArS7jZ/wnPnyf9O2l30n/j/kV+Pz2v8AdP4GoSNpxXs5fn1DGq+Hmm+q2a+T/PY/LOMvCvP+FqijnWGlTjJ2jNWlCT12lFtXaV+V2lbdI/WTVP8AgsX8E7C42Q3/AIovv9uHRH8v/wAfrnNZ/wCC2/wxsJNlr4e8cX3+2lraR/8Aoc9fl9RXpfWJnxX1OB+j2s/8FzPDEX/IP+HviC6/67ajBb//AByuf1n/AILrXPlf8S34Z2/mf9Pmvf8AxEFfANFP2kw+rwPtzWf+C4/ja6i/0DwP4TtZP+nm6nuP/jdc3rP/AAWk+LuoR/6LpvgfTZP76adPJ/6HPXyN9pSIfM8f/fdLWftJmn1eB9NX/wDwV3+OV/H8mt+H7X/r20SD/wBn8yubv/8Agpr8db+PY3j+8j/646dax/8AoEFeM2vhLWL/AP499H1if/rjp08n/slbNh8DPG2qRxva+D/FE/mf3NLn/wDiKPaTD2cDqr/9ub4x36bLj4neMJP9y98v/wBArnL/APaC8f6p5n2rx544uvM/57a9dSf+z1q2H7I3xO1SON4vA2uf9tkS3/8AQ3rZ0v8AYP8Aivqce/8A4RXyP9i51GCP/wBno98P3Z5df+KNV1S4ka61XVLqST77zXsknmVnS2sM0m9kjkk/vulfQOlf8E0/ipf2++Wz8P2P/XbVP/iEkqpqn7Cl54S8z/hI/iL8L9Dkj/ebH1d5JP8AvjZVamnNA8J+yx/3I/8AvipK9I1r4N+D9B8zd8SLfXJP4E0fw9PJ/wCPzvHHXHy+A5pdUk+z38f2H+DzrX/SP/Q6WoGPRXTWvwv87/W6lcf8AgStG1+Etn/FeahJ/wADT/4ijUDiKK9MtfhBo/mb3S8k/wC3p61bX4QeHpfvab5n+/O//wAXRqL2h5DBH5jewp1zeR24x5kafVuldb4k8PWafEmHS7e3js7VpoYSIR8x37SW7/N836CvXNL8EaPa/wCp0fS0/wC3VK+Mo4dZrmVWpiNadF8sY9G+rffVfPTotf6dzbO63h9wPl+DyT93jMzp+2q1lpONN2dOEGtY+7K107xak0lKd4+C/D/WorHxzpT+d8m94/k/eeZ+7kr37R/CVzrMe+/8yxtf4IUf/SJP9/8AuV9BfsM/Eb4V+CLzxNYeMrOzjvryeCCDfawSR+QieZ9z/rp/6Lr174yfBH4M6r4Autb0O8jt7j5IIIdNvfL8yd/3aJsfzNlfaUaSWi2P5axWInUrOpUbcpNtt6tt7tvq2Zmpf8EzPhv+0J+zZ4ZvLPSYvC/ir/hH4Wt7/TCLdZ5TFI0ZuYiCkivI/wAzALKQiDzAoxX5e/En4fa18M/GepaDq1k+n65otw9tc21wpXaw4wf9k8EN0III4Oa/cT9lzUJrn4BeGIZ5o7qTT7X7B9pT/l4SD92j/wDftK+Gv+C6Xgaz0/4h/D/xLG1x/aGsaddabOjFBGI7V43jIAG7cftTglichEAAwc+Jxhk9LCUI51gkozptc1tOZNpa/N/cz93+jtx9jM/zGp4acS1JYjC4qE1S525OlOnGVRODd2klFtK9k1G1tU+G/wCCWHgO58W/tIeGZrpY9Sj0vz7+e2SH/R7dNkmyR/8Ato6eX/00r9Xa8v8A2MPCuj+HP2YvAt1pmkaPpM2vaDp+pX/2CyitPtVzLbRu8zqoCtlmJwAAM8AV6hX6DlsUqEZR2aT+8/kniiVRZjVw1WzlTlKLtteLadr20utNEFFFFdx8+FFFFAHo3xK+Ofhn4VWbPrOrQwT9EtYf31w/0jQbzXzt8W/+CgOpSWl4ug29v4dsUyP7TvnSSeMf39h/dp/wPf8ASvnvS9L8VfErV500fTbi3kvH8yS/mh+13Hmf33Tf5cf/AG3k8z/pnXpngT9jNPt8GpeItSuJL6N/MdIZvtH/AI+6eXH/ANsI45P+mldWHyHKsBrX/fT/APJT7bMOKK0/4fuHm3if4k6v8SPE0dw39oa3qGof6i8v3f7PJ/1wT/WP/wBsI/Lrq/CX7I/iDxt5c3ia8+wwfx2bx/6PIn/XBH/9HyP/ANc6+gfBvgTR/h9aPDo1hb2Mdw/mTun7yS4f/bd/netc8iuytnFVw9nRXJDyPlqmMqTnzs5DwJ8B/DHw+ij+x2EdxJH/AKt7n959n/65p/q4P+2caV2FFFeXq3qcntOcCcV+bf8AwWV/ZLvtN8Wj4o6HbtDo+pQx2WtC3tw0dtcqQFuJkJA2yqYog/coB/y0r9JNvFfIP/BbHWbzTP2SdKt7a6uraDUPEtrbXMcTtHHdwi3upVRwDhlEkcb7TkbkU9VBrwuIsQsPl1XEJXcItr16fifo3hLkn9tcX4DKJS5YV6sYyfXl3lbzsml52Pyz8JeH21m/tbHzoYpJMLkK3zHvsXJJ7kAn8a+7/jF+x3onwX/4JwaNq0nhVNO8aLqkV1e3csSSXzQyyyqod2yUUW/lF4k24ZGYKCzE+0/8EjPhl4Ij/ZN0PxHY6ToNx4suLq8TU78RrNfQSrcOqRlyGMWIBAwjG0YcPjLlm7T/AIKGaPf6/wDC7wzDZzeRHceJYLe6R/8Alok9rdwIn/fx0r5Phnh2jSwCzKtadWolJyetr66dmr626/I/bvHXxezXG8RT4OyzmwuAwdWVCNKLcVJU/cbnZ+/GTi3BPRRa0u23+Yvgz4Qa38ZL/wDsrQ9BvNckk++kMHmRx/77/wCrSuj/AGjP+Cafjz4DfCPTfFWqTW8GlXF6kE8Kb7v+z3/g3v8A9NK+lv2EP2+vCv7PvhDWPCviDTfOfR4/P0v/AJZ+Xs/dzwP/AH/4H/77rh/2yP8AgqTqX7S3hDUvCdnZ+ZoGobI3htk8u3j2P5iPv/6ZyJXq+4flPPPnPjKHwXdRupkvo2XuEtuv/j9UdT0zypfKkZlHUOoBbH06fhXYSVi+JQvkxn+Ldgc9sc/0r4ziPLaVOi8ww9oVadndaX12ff8AXbY/pbwN48zDGZlDgvOW8TgMWpQdOfvcjcW1KDesUnG7Sdo3c0uZXeXJ4OhQcXl5IP8AfTn/AMcqGXwvD/z2vJP9+d61rNidNX6Y/nUN1X0uDxHt6EK1rcyT+9XPwnibJ/7JzjF5Vzc3sKtSnfvyTcb/ADtcx5fDltF/BJ/3/eqsujWcX/LtH/3xWxN0qjddK6DwyjLpltLH81tbyf8AAK3PDnxV8T+CI400bxJrmlRx/u40tr1444/+AVlzdarzdKDQ9D0v9r74paX88XjzxBJ/12nST/0Or3/DcHxXl+94zvP/AAFg/wDiK8ojp8X9KvUD1T/hs34oy/e8bap/wBII/wD2Sql/+1B8SNZ/4+PHPiT95/Al15f/AKBXnsVTxf1o1A2dU8Zax4j/AOQlrGsaj/183s9x/wChvUdhEkX3UjjqjHV61qANa161qWn36y7HpWpaffoMzStP+WdaNt/q46zrT/lnWjbf6uOgDStP9XWnY9azLT/V1q2nSgzPOfi/aSaJ4vs9St18ppkWRZM7syxnrg+g2dsH869U8IeIbXxNpkd3Zyb424IP3o27qw7Ef/X5BBqjq/h618T6XJZ3ce+N+QRw0bdmU9iP/rcgkV5it1r3wX1lY9ytFKpYISz20+QATjj5hx6Hgdjz8biKlTJ8bPFNc1Gq7uy1jLv21v8AP1Wv9S5JhMH4m8K4TIKVRUs1y+LjTU5WjXpbqKbvK8FFK20dWvdk+T1HxR8IdK8b6g95P9stb7Z5f2m2n8uT/wCN1e+Gn7LXxF8W6xdP4X8T2c+m+G7V9WvX1Xfbx26Ikkf308z9587v/q/+Wdc5oX7Q2j3ds5vre4spVRpNiqJFcgYCKw5G/ocqABnn1+kPC/7XHwj+DP7HXijSdJ8VvrXjzxRZsLyK2028i3SSqIlhR5YkQR28TNjLDJ8xhlnxX0NPPMtnD2irxt5tJ/c9fwPx7G+EPG+GxX1OeVV3K9rxpynG97fHFOFvPmtbW9tT60/YCu5r/wDZL8KzXU0k8+yfe/8At+fJv2f9M6+EP+CpXxjk/ak/a20XwJ4TkuNSTw3L/wAI9BbSRJbrJq81x5c4R3wSpZYItzkKGiYr8p3tw3gX9v8A+JOg/AzTfhh4Ka8s7+81i+kF9Zr5+oXKXkrGKztU2kwlTIQGjJkZhGUaPBDe/wD/AAS4+CfgT4F/EW41rxp458Dn4iTCXTdO8Px6xZXL6YGIDuZVdh9qdQVCRt8sTuGLGQrHx5lmiz9QynL7+yunUqWaSS1SV93futWla6uz9E4L4JfhDCvx7xe4RxzhKOEwvMpTlOScZTny35YqLs3Fu0ZNSam4xf3t8OfBFp8Mvh7oPhuwkuJrHw/p1vpttJcMGmeOGNY1LlQAWKqMkADOeB0rZoor9ThCMIqEdloj+HcRiKuIqyr1nzTk2231bd2/mwoooqjEKKKKAIdL0q10bT47Oztre1tbf92kMMflxx/8AqaiigAooooAKKKKACuN/aE+DGn/ALQ3wW8ReDNSfybfXrQwpNhm+yzKQ8M21WUt5cqo+3cA2zaeCa7Kis61GFWnKlVV4yTTXdPRo7MtzHE4DF0sfgpuFWlKM4SW8ZRalFrzTSaPyZ/Yu/a51r/gnH8UvE/g3x9oOsnSbiUf2hp8T7rrTLpEOyaBGcQusqlAzAjeghdXKoFf6o/4KRfHbw78Sv2Dzr3g/wAT6ff2N94i0mKO6sZg8kUxkWZI5F+9HIFCyNG4DrtAIB4rQ/bF1j9n/wDaCutQ0HxYur6lq+gzx295r3hbQ7rUbrQijM32eW8ihljUHe4MDhkTeTgMFYfDf7R3/BPHU/hJ4Es/Fmh+KPDfxA8F6vG93p93Y7o7i4ghtnupZzC25AqLDIQFkdjtUgZOB+Y01m2SUpYSjD6xh+lvjjd3tZb/AHW81sf2li6nAHipiaeeZhiFlGbtL2imm8PWaio8yk2lDZLWSklvGo05Ho/xQ/Za0H9pb4X2vxa8G6V5fia4R5Ne01Hfy7ydP3c+xP8AV+Z5ib/+mlfN/mpLbxvF/q9nybKufs/ftS/EXwpoy6f8P9Zvmt9Uu2kWCDTo7qSafaEbAkjZ921QCB1AHHSrviT4O/FzxvrmoX+oeCfFy3F8zXV3Ivh+SyhJVcs5Cxoi8DJ6ZPJya4anFUH7qw9Xm7cvXtvf8PkehH6OuL5vbSznA+w35/bP4N1K3Io7a/Hb+89zl9QvVso90jBfQd2+lYN1O2tX6hVZV6D2HqamsdAe9XzpZV2Mctg7mPP5c+vNaEVlHYptjXHTJPU1yVMPmGbtRxMPZULptP4pW/L8Ledj28FnHBfhrSq18jxP9o5q4yjGpFWo0ubRtatSaV9YufNteCkyCWPyYWUZwowM+1Urqr10eJKo3VfYxiopRjsj+X69epWqSrVXeUm233bd2/myrN0qjJV6bpVWWKqMirN1qnKf3tXJutU5T+9oAKWL+lJRQBYiqeL+tQRU+L/WUAX46tWtUfMq9a0AaVr1rUsKy7XrWpa9KANa0/5Z1o23+rjrKsJfNrStZaANS16VpWtZNuf3tadp/rKvUzNW161LeR2txp0321baS12b5ROgZV78g8dai0u1mv8AULWztYbi+vrx/LgtrZPMuLh/7iJX3d+yD/wTnh8JfZfE/wARIbe+1j5J7LRHTzLfS3/vz/35/wDyHH/t04xVRWewLEzoTVSm2pJ3TTs01s0+jXc8Z/Zz/wCCQHhv4sfDu21/xd/wlHhuTUh5thp9lMkNyIOokmEyS/NIMOiLgqrDcWbKp8wftU/Ar4f/AAj1HxXN4Y1bxBdaLoI+yW1xfzRSNd3SsYmPyRIPLMpCKMZO08/MMfpP+3r+1BbfCrwfP4S0a/8A+Kx8QQ+W/kv+80e1f787/wByST7kf/fdfj38ePGV/wDG74qab4J8MwyXX2e9TTbWFP8AmIXz/u//ACH9z/v5XLhuGMtr17OjH7tPuWh99Hxp44oYXljmlbl13m5PX+87y66a6dLWR9zfsC/DO7s/+CUnxG1bRdBtdU+KOoaTq1vDewW2NQu47m2jlt7dJIxuH7sxnYMLuXdjcST8m69/wUO8c/Fv4DyfBmw+G+h2upXGlppKJpug3Ul5JP8A6vZBa7PLgn/26/Vf9jj4X/8ADPv27wAj+emh6Doknnf8/D+RJA7/APkCvbzawxXHnJDH58n8ez95X0MMppTpQVG0YrokkvuR+Q5hxfjHja9fMZyxFSpvKcnKT9ZSbb+8yPhndaxc/Djw5N4gto7XxBJpdrJqMKP/AMe91sj3p/38rboor3FofAN3dwooopiCiiigAooooAKKKKACiiigAoiP72ig9KAPx48T/Eb9r39l/wAeeI/BOl+EvFE+lah4h1G7srnTfCiX8fkTzyT77WdP3f8AH/y0r6y/ZP8A2ZPGGg/smfDPwx8TPMtZ7h/EVpNazP5lxZpqkFx5CT7P3fmfPP8A9tJK+1V6VzPxZ0y51DwBfPZ/8f2n7NStf+mjwP5mz/tps2f9tK8f+y4UuacD6uXEU8R7GnOHwH4CeHPDmrfsq/HTxN8NPFv+g32n3vkb3fy45HT7jxv/AM85I9jxv/1zr9Lf2D/2zZPiD5Hgbxhc+Z4jjT/iXak//MURP4H/AOm8f/kSvOf+C8v7INt8RvhvpXxv8O23n3WjwQWmt+T/AMvGnP8A6if/ALZyPs/65yf9M6+CvgF8bppLi10fVLmSO+t3/wCJdf7/AC5JP7ib/wDnp/t1z4inzw9tA+qw75/cP1T/AGoP+Cc+j/Gm4n17wrNb+GfE0n7ydNn/ABL9Qf8A20T7kn+3HXwl8VfhL4k+C3ih9H8UaPeaPfb38jzk/d3if34H/wBW8dfZ37L/APwU20q+s7HQfiR/xKr63Ty49e/1lvcf9d0/gk/2/wDV/wDXOvqvxv8AC/wr8c/A/wDZuvWGn+I9DvP36b/3kf8AsOjp9z/fjrg9nCZp7ScPjPxZuutULqKvvH4+/wDBHS8ikmv/AIb69HPB/rP7H1iTy5P+AXX/AMcj/wC2lfH/AMWvgF42+Bl55Pi3wxrHh/8A6bXMH+jyf7k6fu3/AO/lYeyOunUhM4OWKoZKtS1VkqTQozdarzdKty/1qpN0oAjopsdPi/pQBPFU8X9agiqeL+tAE/l1etaox1etaANK161qWvSsu161oWtXqZmtYHpWla/uqo6VE91dwW1ukk89xJsSGFPMkkf/AHK+lvgZ/wAEuvi78ZPIuLjRI/B2lXCeZ9s15/s8n/gL/r/+/nl09TOoeE2v7r569s/Zu/Yt8eftLaxH/ZGlXGlaH/y31vUoHjs40/6Z/wDPeT/rn/38r7s/Zw/4JZ/D34HCG+1qE+N9fT5/tOow/wCh27/9M7X7n/fzfX0B4y8ZaP8ADnwvNquualp+j6Pp6fv7m5fy440rb2By1K/8h5H+zT+w94P/AGX7PztNhk1XxHcJ5d1rd4nmXEn+wn/PCP8A6Zx/+RK4D9uH9uWH4F+Z4Y8JfY9S8Yyf8fUz/vLfQ0/2/wC/P/zzT/gb/wC35z+1L/wVZ/4SPR77QfhfDeWsdwjwP4kuU+zyRp/06w/+zyf9+6/OT45/tDw/DTzNH0aSO68R3H7yd3/ef2fv/jf+/JVUl7Sfs4C9nb95UOm/ab+PE3hfR9Vf+0pLrxj4gfzHmmfzLje/353/APadegf8ELv2UP8AhLfihqXxO1S28zSfB/8AoGked/y8ai6fO/8A2zjf/v5PXyT+z98AvGf7X3xkg8N+GYZNS1jUH8/Ub+5/499Pg/jnnf8A55/7H/LT7iV+3nwb+Euj/sW/szaV4V0NJNSj0OHyIPk8u41i+nf7/wD10knf/tn/ANs69qtThhKPsafxzOJ1J1ff+wdp8P7BNU+InibXl/5Z+RoSP/z08jzJH/8AIk7p/wBs67NeBWR8PvDEng3whY2Es3n3UaeZdTIn/HxO7+ZO/wD38d62MV24enyQ5T4DGYj2tecwooorU5gooooAKKKKACiiigAooooAKKKKACiiigAoooPNALTY8z0/w7Z/2PqXw9162jutNuLWeC1SZ/Mj1TTn/dun/XSPfsk/7Zv/AMtK/En/AIKRf8E4tb/YU+IEc1r9o1X4e65N/wASjVdn7y3k/wCfWf8A6af7f/LSv3q8beEl8V6NsWb7DfWb+fZXiJ/x5v8A3/8Arn/fSuH13wvoP7SPwv1jwr4y0SzvoLhPsmr6VM/mRxv/AH0f/wAfR68qbnQnzR+A+3yvHPEU+Sfxn4HfC/8AaHSO3g03xB5nmf6tL/8A+L/+Lr6h/Zu/bE8Yfs03Ec3hfUre+8PyP5j6Pcv5mn3H+2n9yT/bj/8AIlcP/wAFGP8Agkb4n/Y8uLrxP4V+2eKvhrv8z7Ts8y80f/YnRPvx/wDTf/vvy6+TfBvxB1LwRcedptz+4/jhf95byf8AAKyqYGFb38Me/TxH2K5/QF+zJ/wUJ+Hv7Q9nBbNqVv4Z8R/6t9K1WdI/Mf8A6YP/AKuf/wBGf9M69+urCG/0+SG4hjntbhPnhmTzI5Er+d3wl8c9F8UWX+mNHpV1/HDM/wC7k/3Hr3T4Qfth/Ej4GeR/wivjPVLWxj+5ZzP9rs/+/D+ZH/37ry+ecPcqFew5/fpn6W/GT/glX8HPi+JJovD0nhHUpP8Al58PP9k/8gf6j/yHXzh8S/8AghBqsXmP4N+IGn3X9y21uye3k/7/AMG//wBF1o/Bb/guE9t5Ft8RPB/mf39S0GT/ANtZ/wD45X1X8NP+Ch3wW+KFvA9h8QvD9jPJ+7+zarP/AGZcb/8Acn8ul7kx/voH5n+Mv+CRvx78L/d8JWesR/39N1eCT/xx3jkryTxl+yN8VPAf/IW+G/jix/2/7Inkj/77TzK/efQvFGm+J7fztL1LT9Sg/v2d0lxH/wCOVal3xf8ATOn9XD63M/nPl0a8sI5PtFneQeX9/wA6B4/LqjFf23/Pa3/77r+jS6tYbr/Wwxz/AO+nmVmy+A9BluN7aJo8kn997JP/AIij6uX9cP55ItUtv+fm3/77q9pf/E0k2Wv+lSf3If3lf0Gx+DdHik+XR9Hj/wByySp7XRrOwk8y3s7OCT++kCR0fVw+uH4MeHPgt4z8WW8b6X4P8WalHJ9x7PSJ7j/0BK9Y8B/8E2Pjl488v7L8PdUsYJH/ANdqU8Fh/wCjH8yv2gilf+/VuL91Hvb/AFdH1cz+tzPzE+H3/BD34l6z5b694n8H+H49nzpC89/JH/45HH/5Er6M+EH/AARR+G/hLy5vFGseIPGNxH9+Hf8AYLP/AL4T95/5Er6F8W/tIfD34af8jB458J6P5f7t0udXgjk/7431418Wv+CwPwi+HMckOjXmqeOL7+5pUHl2/wD3/n8uP/v3vpezgT7StI+gfhL+zx4D+CKf8Ul4P8P+H5NnlyTW1kn2iT/rpP8A6yux17xbpvgzR5NS1nUtP0qxt/v3N5OlvHH/AMDevyr+LX/BZD4o/EHzLbwzbaP4DsZP47ZPt95/3/f93/5Dr5t+Jfxf1LxvqH9qeNPE95qt1/rPtOsaj5nl/wC5v+5/2zo5g9hOfxn6YftNf8FfPCvgPzNL+G8Nv401n/VyalN5kel2f/tSf/tn+7/6aV8B/Hz9pbXvi1q8/if4g+JJLqO3+55z+XZ2f+xBD/q0/wDRlfOfjf8AaqsNB8y20G2/tif/AJ+Xfy7eP/2o9eQ+KPG+q+N9Q+2azfyXUkf3E/1dvb/7ifwV24fL61fcKmIo0j2L4i/taf2pp89n4ZhuIPMTy/7Sm/dyR/7if/HK5j9mT9mnxV+1f8WIPCvhK28++vP397f3O/7Pp8H8c87/AOfMr0b9gD/gnF4t/bm1SS/imk8M+A7N/Ln16a18z7Y/9y1T+OT/AG/9XHX69fs+/s0/Df8AYP8AhPfW3h+G30PTY0+16vrF/P8A6RebP455/wD2T/V/3K9L22GwkPZ4b4/5zgqOrV/jEH7Kv7Kvgz9hP4LyaVpP/LNPtet6xcp/pGqT/wB9/wD2mleX+KP2r/FXi79p++8H6NeeC/CN94f0+DUvJ8VI8lxbpP8Ac2Wsbx75/L+eT95+48yNP9Z5lfRfw/N58SpI9e1KzksdH3+ZpFhcp5dxcf8AT1On8H/TOP8A5Z/ff95/q/l7/gob/wAEdLb9tf4wR+PNG8bf8Ir4gkhggvba8077fZ3HkJ5aOnzxyJJ5dcNTC1nHnh8ZxU84wf1n2Ff4D179kH9re4+NXxA8ZeA9cvPDeseJ/BaQTz6r4b3/ANl6hBP/ALDu+yeP7kieY/8ABXvqjFfLn/BOP/gmLo//AAT/AI9cv/8AhJLzxV4j8QQpBNc/ZfslnZwI/mbIIP8Arp89fUatmvVwftfZ/vtz5XNPq31mf1X4BaKKx9d8b6b4cvI7OWaSe+uPuWdtA9xcSf8AAE/9DrpPPRriqfiLxRpvhHT/ALZql/Z6ba7/AC/OuZ/Lj3/3KytUtfEF9o899qV5p/w90e3f57y/eC4uPL/9EQf+RKv+DfASwald3Hhvw/ealqXyY13xHNJ5D/8AXHf+8/4BHGkf+3XDXx8IHoYbLq9YpWGp+IfG+9fD+iSWkf8ABqWto9vbyf7aQf69/wDtp5dVL3RdEW8k/tLxB468Q3X8Z0C1v/slp/0zH2GJl/7+O7+9epp8HY9bMjeJL6415JI9j2Dp5en/APfn+P8A7aO9ddb2MNjbRw28PkwxLtRIo9qqPpXl1swnLY+gw+Rwj8Z5TRRRX0R8eFFFFABRRRQAUUUUAFFFFAH5yf8ABUj9r3Svgh+2v4f0H4g+F9Q8XeAf+EXS4stKhuvLt5L6S6k8y6dH2Rz+XHCifvP9X5lYH/BM79oNP2gv2zPFyfC3QZPA/hHT9B8+60SaT7Rp9xdefH877P3cEkm9/wDUf88N71+hvxZ+Bvg348aPBpvjTwr4f8VWNvJ5kEOpWSXH2d/+me/7lT/Cr4NeE/gj4b/sfwb4b0PwzpXmeZ9m021S3jkf+/8AJXjzy2csR7aUj6ynxFTo4D6tCHvmXa+PLb+0P7K16zk0O+uP3aQ3n7y3vP8ArhP/AKt/9z/Wf9M6+TP2w/8AgiF8Lv2gre+1XwbDH8OfF0m+RHsI/wDiV3kn/Te1/g/349lfcetaNZ+ItOks9Qt7e+tLj78MyeZHJXK3Pw/1TwnH5nhm88+3j/5hWpTvJH/wCf8A1if9tN8f/XOipgp0/fohg8+hP3K5/O1+1V+xl8Qv2N/GH9j+OtEksY7h/wDQtSh/f6fqH+5N/wCySfvK880Hxvqvhf8A48L+4gj/ALm/93/3xX9I3jew8JfHPw/P4G8eeHreT+1E/f6JrECSfaP9uB/9W/8AvxyeZH/0zr87f2pf+Deh7W7utS+E+sfarGR/M/sfVbr7PcW/+xBPs8uSP/rps/66VX1vn9zFQPf9rDk56B+fujftGXkXyalZ293H/fh/dyV1th8X/D2s28b/AG+OCST/AJYzJ5dYfxk/Yt8ZfBfxJHpWvabeaPqUn+os9Vg+ySXH+4/+of8A7ZyV5d4i8Eax4Sl2alpt5a/76VnPL8NP34EUc8hKXsX8X/k3/gJ9GaN4k/su4judIv5LWf8Agms7ry5P/HK9D8G/tr/GD4cxxpo3xI8YWscaeWkM2ovdx/8AfE/mR18Oea8X3X8uprXxRqVh/q7+8j/7bVh/ZFb7Ez1FjIT+M/SrQf8Agsh8eNBj2S69oeq/7d5okHmf+OeXV7/h9T8cpf8Al58J/wDgk/8As6/N21+LWvWsez7f5n++nmVN/wALz16L+O3/AO/FR/Z+JgP2lA/SD/h8/wDG7/n98J/+CX/7Opv+HzXxvl/5fPC//gkT/wCLr83f+F5+IZf+W1vH/uQpRD8bvEP/AD+R/wDfhKX9n4kXtMMfeXij/gpj8dfGXmfaPiJqljHJ+7dNNggtP/QE8yvNfF3xW8T+PJHfxF4n8Qax/f8A7S1Se4j/APH3r5Ql+L/iG6/5itxH/ufu6o3Ws3msyb7q5uJ/99/Mp08srTD63RhsfS8vxB8P6DJ/pGq6fBJ/HsfzJP8Axys3VP2kdB0a42WqXmpSf34U8uP/AL7evnq1/uLXT+HPhf4k8R/8eGiapP8A7fkeXH/4/XdTyeH/AC8meZi86pUY802of4jrfEf7SOvaz5iWH2fRrf8A2P3lx/33XFXV/Nql59pvLmS6n/57TP5lejeDf2Wr+/1CCHWdSt7GeT7mm2CPf6hJ/wBsEr7o/ZQ/4I1ax4j+y6lrOjx+B9N/1n2nWI0v9cuP9y1/1Fr/ANtP3n/TOuz/AGbCHgS4ilip+zwcPa/4fh/8C/8AkeY/PHwv8NNe8UfZXs9NuJINQfy7WZ0eP7Q/9xP+Wjyf7Ee+v0U/YP8A+CGf9qXGm+MPjYknkf6+Dwlv/wBZ/ce62f8Aoj/vv/nnX3X8EP2N/h1+zfJ/aujaPHPrEafv9e1Wf7XqGz/ru/8AqI/9iPZHXY2vi3UPG/yeF7aOS1kT/kMXn/Hn/wAAT/WT/wDjkf8A00rjr4ytiPcR6WH58PD22K/r+v8At30Kvjf4g+Ff2c/Adr9q+z6VptuiWml6bYQfvLh/4ILWBPvyf7Edcj8Nfh14q+OXjCPxb8SNKj0bQ9PdJ/D3hV5/tHlv/wA/d1/fn/uJ/wAs69Q8JfCvTfDmuf23deZrHiPyPIfVbz95cRp/cRP9XBH/ALEddKRurowuE5V754uYZx7X3KIZPpSB89qr6xrln4c0+S8v7m3sbSP/AFk0z+XHWTY+INa8a+X/AMIzolw9rcJvTVdST7JZ/wDfn/Xv/wB+0j/6aV2VKkIbnz9OlUqHQVzkfxBh1i4SHw/Z3niaeR/L32Gz7Hb/APXSf/V/+hyf9M6LDwdYavqEP9pX2qfELUo/3D2emps0e3f/AG03+R/3/kkkrv8ATvhxrmp2lvDd3sfhmxt5PksdC/jT+48zp/6LRD/t15mIzKEdIHtYXJ60/jPPdU8PX0U9ifF/iQaO1xNmHRfDyPJcXn+w77PPk/7ZoldX4D+G+oaXpslr4e0LT/AtjJPvkmuII7i8u/8Ab2Rvs3/7cjv/ALld74S+H+i+BFnXSdNt7D7Y/n3Lov7y4f8AvyP99z/v1vE4ryKmMqTPoMPlVGicpoPwo0fSdX/tKVbrVNVGP9Mv5vPeP/rmn+rh/wC2aJXV0UVznoegUUUUAeP0UUV9ofmYUUUUAFFFFABRRRQAUUUUAFFFFABR0oooAo69oNj4o0t7PUrO3vrWT78MyeZHXLX/AIO17wnHv8P3P9sWsf8AzCtVn/ef9sLr/Wf9/N//AF0jrtXNZHxBuNQtPh9r82kW8l9q0en3T2Vsj+XJcT+RJsj3/wC/WOIoxnD3juweLrUqnuHlWvfHP4S/FC7uvAfjDUvB/wDav+ovfDHiGe1+0Ru/+w7/AD/78deR/FX/AII6fDHxlJO/hy/8SeB5JP8Al2s50u9Pj/7YT+Zs/wByORK/PXwl/wAFHdY8L/s9/wDCn7/4b+F4Nc+xSabdXN5pc8l5JO/7ve9ls8x7uSR/v+Z/rK/V79j34deJLn9lPwBc+I7nxR4V8XSaDa/2pZzah9r+zz7P40n8zZ/uf8s/M2V87hfaVJ+4faZ5RwVKjB4z3mfCPxV/4IK+JLDz5vD954D8VQf6xEuYJ9FvP/HPMj/9Ar5z8ef8Eq/iF4NuJF1T4OeMI/L/AOW2iP8A2tb/APAPIeST/wAh1+3kvh3xnpfmfZdS8P6xH8+xLy1ewk/77R5P/RdEus+JLWOTzfCVxPJ/056hBJ5n/fx469LmxMdonzrwmAn/AAa04f8Ab0v/ANk/nv8AFv7FFz4XuNl/onjzR5JP+fzRJ4//AGSuHv8A4Baba3Eif8JJbx+W/lukyeXJHX9Ith4y1qWP/SPBnii1/wBh57GT/wBAupKo6/f2d/byPqXgPWL7/YfSILv/ANno+sVv5P8A0o0p4OcPgx0//Kcv/bT+c+1+AWj+X83ie3k/3Nn/AMXVuL4D+GPNjRvE/wC8k/gTZ+8r+hrRv+Eeijj8rwHqGm/7H/CNeX5f/fFcX4o/aq02w8Yat4b8G/D3xB4x1zw+6R6vDbQQaZb6W7p5iI8915f7zy3R9ke+ipmHJ8cP/Sgp5Rj60+Snjp/+A0//AJE/D/w5+yNbeKNQgttLtvGGuT/88dN0ue4k/wDHEr3T4c/8EpvHOveW9h8H/FE//LTztbnSwj/74neP/wBF1+tHwg/aCvPjlFrltoPhm40fVfDd19g1ew169S3k0+fZHInyQefvjkjf92//AC0ruD4P8Tap5f2zxJZ6bH/Gmlacnmf99z+Z/wCi6qFarVV4ROXEZXCH7vF4ur/4Fy/+kxifm78Nf+CN/wAS/wB35qfDvwXB/G6O9/cRp/uIkcf/AJEr2/wl/wAEzvhF4D8tPHnjPVPGmpfJvs/7R+wW/wD4C2v7z/v5I9fW0fwX0e5/eak2qa5Jv8z/AImWoPJH/wB+f9X/AOQ639A8O6b4Yt/J0vT9P02P+5bQJb/+gVt7HET/AIkzhw+FyjCS9rRoc8/55+9L/wAm5jy/4X+F/Dfwv0eOz+H3w3k0u1/v2elppMcn++8/lyP/AOP11UVh4w1X+Dw/ocf+28l/J/7Tj/8AQ67SjHFOngaUdztlnWIf8JHzL+2tF8S/h94H03W9Dj0/xNpvh+9TVtR861SOOSBEk8yCeD+OD596PH+8j8uvQv2Rv2ufDn7Xvw3g1jRHjtb63RPtum+f5n2P/bR/44JP+Wb12k3xLs9Tnms9DtrjxVdRz+RPDpuySO3f/pvM/wC7T/vvzK+C/wBtH9kHxJ+xL4kj+K/w/vNP8M2OoXX+m+HtHmeOTT/P+/JG/wDHBJ9x0jjSOPzPk/6Zv2lGkbU/aY5ck/jP0A8U/EHSvCb+TdTST32zzEsLOF7u8k/3IE/eVHLa+JtctJ7mf7H4L0ONN/2+/nS4vP8Avj/Vp/20kf8A651g/sheM7X9oX4VWvifwDpei+GdL1iDbeajM/2vUBepw8bp/Hs/vySf3Pkr27QfhJpumalDqF99o1rVLdPkvr9/Mkj/ANxP9XGf+uaJXn4jMpX5YHRh8in/AMvDzfwb4Ms7nU7XUtA0O88TX8kf/Ix61Nst4/8Ac3/vP+/Eez/bruLH4Rzaz5M3ijU7rWJIvvWlnvsdPP8Avwbzv/7aO9d5mivLnWnP4z38Pg6FH4EU9J0m10PTo7Oxt4LO1t02JFDH5ccf/AKuUUVmbBRRRQAUUUUAFFFFAHj9FFFfaH5mFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFAFKXQbCXVPt7WFnJff8APz5CeZ/33V2iigbbe4UUUUCCiiigA71+af7cP7Cn7Semftb+KvHnwT1W4k8P+OHgnvbaw15LC4jnSCOP9+k/7t/ufu3j/wCelfpZ1FFc+KwsMRDkmehgM0rYGt7aifIf/BJj9jP4i/steFvGmsfFDVbO+8TeOLqCd4Ybr7XcRonmfPPP/HJ8/wD3xHX10q807GRWXr3jLTfDlxDb3V5HHfXH+os0/eXFx/1zhT949VRpxow5YmeMxE8ZW9vM1Kh1TVLbRrKS4vLm3tYI/vzTP5cdYtsnirxPbrcx2tn4P0f5/PudY2SXmz/Yhjfy0/7aSf8AbOpPBvgDTtTuLXUNK0m/8b6hZzfu9b16TZBB/twO8f8A6Tx7P9uuetjoQNMPl9er8Ayw8R6r4x8v/hGtEuLqDfs+33++wt/99N6eZJ/2zj2f9NKqTeDtN167uLTWtS1T4hapZXKSPomjokFnZv8A3HTekf8A3/kr0yT4Qy+KLeRPE2rS6pbyPv8AsFn5ljaR/wCw+x98nf8A1j7P9iu00rSrbRLJLezt4LaCP7kUSeWiV5NbHznsfQYfI4Q/iHA6T8PfEGpWclveXFn4Z0nGyC00Uf6Qif7cz/In/bOP/gdaPiP4D+E/FHgTXvD97o9vNY+KLF9N1N5E8ye8hdNh8x3+d/vdzXbhs0hPNcDk5HtUacKPwH5/fsi67c/sS/tv6j8M9Qhj0/wd8Q3dLFETZb2mrwJH/q/7iTwbH2f9NI0/gr9Ag2a+T/8AgqP8Ap/iL8Jo/EGjQzf8JDo1zA9jNA8ccltdJJ/os29+293jf/rv/sV6v+xl+0jbftQ/ALSPEyjydUT/AEHWrbZs+x30f+vj/k/+5IlOpUjJ3+0dHkes0UUVJiFFFFABRRRQAUUUUAFFFFAHj9FFFfaH5mFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAsX9K88/Zp/5K/40/wCu1FFc+I+E6cP8Ei1+2P8A8lC+D/8A2MqV9MUUV8zW+I+4y/8AgRCiiisTsluFFFFAjz79qz/k3Dxx/wBgS6/9ANfOH/BIn/kZfj9/2PMn/ouiiuX/AJiP+3f/AG5B9o+0KKKK6gCiiigAooooAKKKKACiiigD/9k=)

Figure 3 Figure 4

**A picture containing transport

AI-generated content may be incorrect.**

Figure 5

1. Verify all interconnecting articles are removed or disconnected so that the Cold Mass can be slid out of the Vacuum Vessel.

7. Slowly extract the Cold Mass from the Vacuum Vessel watching for interferences. Adjust the

Vacuum vessel position as required. The VV and UCM will be re-used.

1. Remove the 50k MLI (Fig 6)



Figure 6

1. Remove the lower 50k shields, minimize dust getting to the cavity string by covering all openings prior to grinding. Before and after (Fig 7)

A picture containing indoor

AI-generated content may be incorrect.

Figure 7

1. Remove the RF cables and instrumentation.

A picture containing map

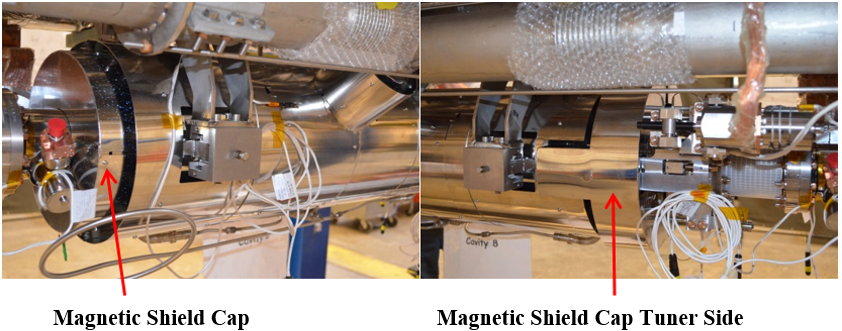
AI-generated content may be incorrect.

1. Remove or disconnect the heat stations shown below.

A picture containing diagram

AI-generated content may be incorrect.

1. Remove Mu metal, end caps HOM covers ½ HV shield bottom



1. Remove tuners 2-8 and stepper motors, reinstall cavity bellows braces

A picture containing engine

AI-generated content may be incorrect.A picture containing engine

AI-generated content may be incorrect.

1. Transport the Cold Mass to the 4 poster, (Fig 8)

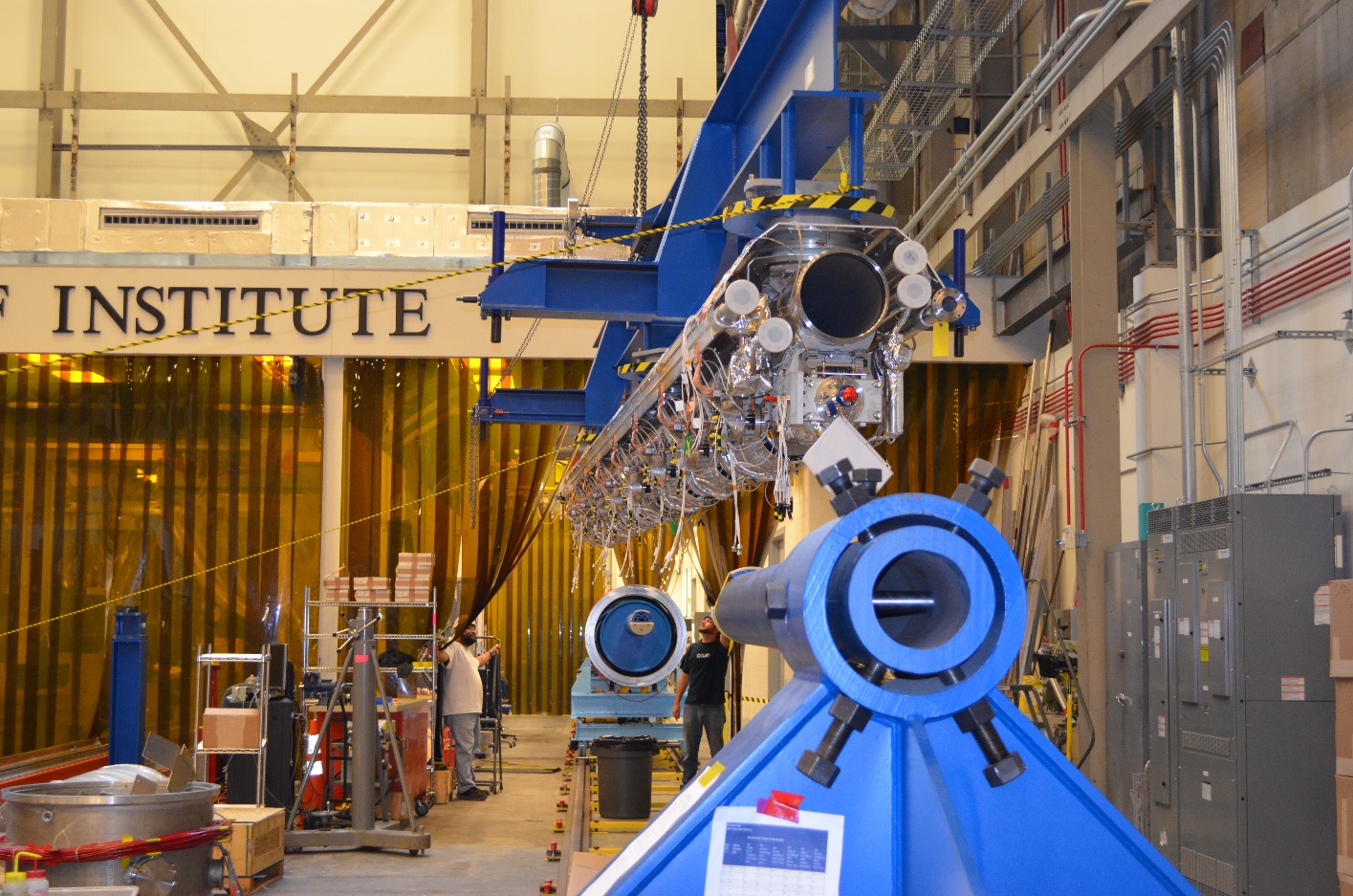


Figure 8

# References

|  |  |
| --- | --- |
| **Document No.** | **Title** |
| SRF-06-PR-001 | Records Management Procedure |
| SRF-07-PR-001 | Document Management Procedure |
| F10127855 | [LCLS HE Cryomodule Assy dwg](https://misportal.jlab.org/jlabDocs/documents/versions/184612/download) |
| F10026609 | [Vacuum Vessel dwg](https://misportal.jlab.org/jlabDocs/documents/versions/184609/download) |
| F10127864 | [LCLS HE Cold Mass dwg](https://misportal.jlab.org/jlabDocs/documents/versions/184613/download) |
| F10017613 | [Lower 50K Shield dwg](https://misportal.jlab.org/jlabDocs/documents/versions/184924/download) |
| F10010030 | [Fixed Support Post dwg](https://misportal.jlab.org/jlabDocs/documents/versions/184636/download) |
| F10010308 | [Sliding Support Post dwg](https://misportal.jlab.org/jlabDocs/documents/versions/184616/download) |

# Release and Revision History

|  |  |  |
| --- | --- | --- |
| **Rev #** | **Major Changes** | **Revision Date:** |
| 1 | Initial version | 07 Apr 2025 |

# Approvals

|  |  |
| --- | --- |
| **Approved by:** | **Name:** |
| Document Owner | Jeff Campbell |
| Document Reviewer 1  JLab SME | Jared Martin |
| Document Approver 2  GL | John Fischer |

For Project Procedures: Refer to the Project Execution Procedure SRF-11-PR-001

*Document Processor Instructions:*

* *Put valid dates everywhere DD is found and verify they are accurate*
* *Attach DocuShare Approval Picture here*