**‘Digitalisation and the Net-Zero Agenda’A picture containing sky, outdoor, outdoor object, solar cell

Description automatically generated**

**Foreword: Dr Peter Couch, CEO of JRC ![A picture containing person, person, suit, wall

Description automatically generated](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEASABIAAD/4TXYRXhpZgAATU0AKgAAAAgADQALAAIAAAAmAAAItgEPAAIAAAAGAAAI3AEQAAIAAAAJAAAI4gESAAMAAAABAAEAAAEaAAUAAAABAAAI7AEbAAUAAAABAAAI9AEoAAMAAAABAAIAAAExAAIAAAAmAAAI/AEyAAIAAAAUAAAJIgITAAMAAAABAAEAAIdpAAQAAAABAAAJNoglAAQAAAABAAAXUuocAAcAAAgMAAAAqgAAGIoc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAFdpbmRvd3MgUGhvdG8gRWRpdG9yIDEwLjAuMTAwMTEuMTYzODQAQXBwbGUAaVBob25lIDcAAAAAAEgAAAABAAAASAAAAAFXaW5kb3dzIFBob3RvIEVkaXRvciAxMC4wLjEwMDExLjE2Mzg0ADIwMjA6MTI6MDMgMTc6MjM6MjQAACOCmgAFAAAAAQAAEuyCnQAFAAAAAQAAEvSIIgADAAAAAQACAACIJwADAAAAAQAoAACQAAAHAAAABDAyMjGQAwACAAAAFAAAEvyQBAACAAAAFAAAExCRAQAHAAAABAECAwCSAQAKAAAAAQAAEySSAgAFAAAAAQAAEyySAwAKAAAAAQAAEzSSBAAKAAAAAQAAEzySBwADAAAAAQAFAACSCQADAAAAAQAYAACSCgAFAAAAAQAAE0SSFAADAAAABAAAE0ySfAAHAAADrAAAE1SSkQACAAAABDE5NwCSkgACAAAABDE5NwCgAAAHAAAABDAxMDCgAQADAAAAAQABAACgAgAEAAAAAQAAD8CgAwAEAAAAAQAAC9CiFwADAAAAAQACAACjAQAHAAAAAQEAAACkAgADAAAAAQAAAACkAwADAAAAAQAAAACkBAAFAAAAAQAAFwCkBQADAAAAAQA7AACkBgADAAAAAQAAAACkMgAFAAAABAAAFwikMwACAAAABgAAFyikNAACAAAAIgAAFy7qHAAHAAAIDAAACuDqHQAJAAAAAQAAEIwAAAAAHOoAAAAIAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAABAAAAGQAAAAkAAAAFMjAxNzowOTowNCAwOTozNDowNQAyMDE3OjA5OjA0IDA5OjM0OjA1AAAAGiMAAAWgAAAIbwAABPkAAA9zAAAEjAAAAAAAAAABAAABjwAAAGQD2AYEAb8BwEFwcGxlIGlPUwAAAU1NAA8AAQAJAAAAAQAAAAUAAgAHAAACLgAAAMgAAwAHAAAAaAAAAvYABAAJAAAAAQAAAAEABQAJAAAAAQAAANwABgAJAAAAAQAAANgABwAJAAAAAQAAAAEACAAKAAAAAwAAA14ADAAKAAAAAgAAA3YADQAJAAAAAQAAACQADgAJAAAAAQAAAAQADwAJAAAAAQAAAAIAEAAJAAAAAQAAAAEAEQACAAAAJQAAA4YAFAAJAAAAAQAAAAUAAAAAYnBsaXN0MDBPEQIATAJiAm0CbgJqAlgCRQI5AiQC9wEHAj4CkgFFASIB6wCVAqgCtwLCAssCzwLJAs8C0gJAAtICYgKPATYBNgHTAOMB7wHuAe0B7AHiAdQByAG/AbYBrQHCAY0BKAEyASwA4wHqAecB4wHbAU8B+QC6AKMArQDhACoBOQEXARUBJQDiAekB4wHUAZcBHgAaABkAFwAWABcAFgBVALgA0AAlAN4B5gHZAcwBBQEZABYAEQAPAA8ADgAOADEARQAVACcA1QHeAWwBRQGZABgAGAAVABMAFAAUABIAEAANABMAKgDGAYIB2gChAMcAaQAcABQAEQAUABMAEgAQAA0ADgAsALEBbQGhAGkAjgB5AO0AUgARABIAEQASABMADQAIACsAnwGhAWIBTwFbASkAMgAuABAAEQARABAADwAKAB4AKgCPAZMBkAGQAXkB4QBpADQAEAAOAA0ADgArAFAAeQB6AH0BgwGFAYoBhQFeARUB4wDGAJwAbgBOAGMAcgCDAIMAbAFxAXQBfAF8AXQBVAEiARABBgH1AOgAwQCZAJcArgBgAWABYwFrAW8BcQFuAVQBNAElASEBJgEIAcsAyQDDAFgBVAFWAV0BZQFpAWwBaAFVAUEBNgFBASwB3wDVAMoAUQFNAUwBUQFbAWIBZwFlAV8BUgFIAVEBSQFYARgBCAEACAAAAAAAAAIBAAAAAAAAAAEAAAAAAAAAAAAAAAAAAAIMYnBsaXN0MDDUAQIDBAUGBwhVZmxhZ3NVdmFsdWVVZXBvY2hZdGltZXNjYWxlEAETAAFEJbb855EQABI7msoACBEXHSMtLzg6AAAAAAAAAQEAAAAAAAAACQAAAAAAAAAAAAAAAAAAAD8AAABAAAAdAf//7SgAABLf///7tQAAJcgAAAAzAAABAAAAAAsAAAAgM0U5Q0VCQkUtNzgwMC00MjI4LThGMEEtMjI1NDFBOEIzNzM0AAAAAAXoAAADIwAAAY8AAABkAAABjwAAAGQAAAAJAAAABQAAAAkAAAAFQXBwbGUAaVBob25lIDcgYmFjayBjYW1lcmEgMy45OW1tIGYvMS44AAAAAA8AAQACAAAAAk4AAAAAAgAFAAAAAwAAGAwAAwACAAAAAlcAAAAABAAFAAAAAwAAGCQABQABAAAAAQEAAAAABgAFAAAAAQAAGDwABwAFAAAAAwAAGEQADAACAAAAAksAAAAADQAFAAAAAQAAGFwAEAACAAAAAlQAAAAAEQAFAAAAAQAAGGQAFwACAAAAAlQAAAAAGAAFAAAAAQAAGGwAHQACAAAACwAAGHQAHwAFAAAAAQAAGIAAAAAAAAAAMwAAAAEAAAAdAAAAAQAAEIYAAABkAAAAAAAAAAEAAAAHAAAAAQAAD1UAAABkAABClwAAAWkAAAAIAAAAAQAAACIAAAABAAAAYwAAAGQAAArvAAAuIgAAyYUAAACnAADJhQAAAKcyMDE3OjA5OjA0AAAAAAAYAAAAAQAAAAYBAwADAAAAAQAGAAABGgAFAAAAAQAAGNgBGwAFAAAAAQAAGOABKAADAAAAAQACAAACAQAEAAAAAQAAGOgCAgAEAAAAAQAAHOcAAAAAAAAAYAAAAAEAAABgAAAAAf/Y/9sAQwAIBgYHBgUIBwcHCQkICgwUDQwLCwwZEhMPFB0aHx4dGhwcICQuJyAiLCMcHCg3KSwwMTQ0NB8nOT04MjwuMzQy/9sAQwEJCQkMCwwYDQ0YMiEcITIyMjIyMjIyMjIyMjIyMjIyMjIyMjIyMjIyMjIyMjIyMjIyMjIyMjIyMjIyMjIyMjIy/8AAEQgBAADAAwEhAAIRAQMRAf/EAB8AAAEFAQEBAQEBAAAAAAAAAAABAgMEBQYHCAkKC//EALUQAAIBAwMCBAMFBQQEAAABfQECAwAEEQUSITFBBhNRYQcicRQygZGhCCNCscEVUtHwJDNicoIJChYXGBkaJSYnKCkqNDU2Nzg5OkNERUZHSElKU1RVVldYWVpjZGVmZ2hpanN0dXZ3eHl6g4SFhoeIiYqSk5SVlpeYmZqio6Slpqeoqaqys7S1tre4ubrCw8TFxsfIycrS09TV1tfY2drh4uPk5ebn6Onq8fLz9PX29/j5+v/EAB8BAAMBAQEBAQEBAQEAAAAAAAABAgMEBQYHCAkKC//EALURAAIBAgQEAwQHBQQEAAECdwABAgMRBAUhMQYSQVEHYXETIjKBCBRCkaGxwQkjM1LwFWJy0QoWJDThJfEXGBkaJicoKSo1Njc4OTpDREVGR0hJSlNUVVZXWFlaY2RlZmdoaWpzdHV2d3h5eoKDhIWGh4iJipKTlJWWl5iZmqKjpKWmp6ipqrKztLW2t7i5usLDxMXGx8jJytLT1NXW19jZ2uLj5OXm5+jp6vLz9PX29/j5+v/aAAwDAQACEQMRAD8A9GpakBaXFMBRS0gFFLQIUCl+lAMcq04gDgnGaYxQOaXaaADFLSAWigBaKAE70UAFJ+FAGeKWgBaWgBRTqAClFAFDU9e0zRot17cqjHoi8ufoOtcVefE6YswsNOXA/jmYn9B/jUuVilG5jS+OdeuGB+1rDnsigUkXiTWTIv8AxNZzjnlwcf4VnzM05UaK+MdXWRXXUEkK9VIU/pityx+IbeaqX9tGyn+OE4I/4CSc/nTU2JxOzsr611K3E9pMkieqnp9fQ1YxWidzIKKYC0UAFFACUlIChRVALS0gAU7NADq5zxT4si0GEwwgSXzLkKeiD1P+FJuyHFXZ5Be3l5eXbzSSPPcOdzEnJqOO1upCWJK8cAVhKR0xhcmWwkXkqc+/rTG0y6kkLBpR6kuannRfsmWYNCmlTI3ZPf8A+vVqXw7qQjOxC+B8oJ5pc6D2UiPTtY1Dw5fJ5jS2kob5XZflPsexFes+FfF8OuKbe52RXgG5dp+WUeq+/tWtOVzGpCx1BXOPQ0zoa2MBaKACjigBDRSAz6KYC0UAKKWgDB8U+K7fw3abeJL2RcxRD/0I+1eYpaX19I91flt8rbm3HLN9fSs5vQ2pQuzTt9OjUBdgAJyQBVuLTBk5IA7cVxykelCCSJodNiVskbj7iluLCVkxGOp6VFy+Uu2VmYIEQ8Mqj86uLGTyaVxpEV3p9pqEBhu4VkQjoR0+noa4fV9F1LQHNxYSvJZp8ykffiP4dfrWtOVnYwr07q52nhL4kG6WG01dQzsNouYx1Pbco7+4r0TerjK8iu6Lujy5KzFNFMQUUAJRSAzqUGmAtLQAVDfXkOnafNeTtiOJCx56+1AHkFsJtZ1KTXdSJZnfMMZ6ADofoO1a24O2cVyVJano0IWRaiUZzzmrkaY69a52dSLIXAzipACD83NSUPwzcgdKl2Ywu1s+poAiYEMRkcUmQQQQCCKpCaucHr2krpepJdwJiCUncg6Z/wA813vhDxSvlw6Xes7SkgRSEZ49GPrXXSkeZiIWZ3Te1NroOYKTNABSUgKFFAC0UAKK4rx9ctMttpiuVSRvMmIz0B4FEnZFRV5HN+YAQqgKo4AHarCY3Ljv1rinuerT0RoRY445q1G3vWTNSdWxjmp1YHkdqQy9BtL5IH4+tTsRtYk8gdKkDNlGJCR0NQMefSqQGZrUC3NntYcg8VzQleKQFSQ6jBOeR6GtqZx4hanrPhbUhqGkorSB5UGGz1Fbhrti7o89qzG0lMQUUAUKWkAUUwEZ1jUsxwoGSfSvLNXvxqGq3V0pJTdsTPXAqJ7G1FXkUUyTkmr0BYsOwrlkehE04wfWpozhsVizUmDkHqMYqxC/yk5pMZftZHLcnC4xT3fJPPGaRRWlXC5U1UZiecU0Jla8w6Kp6Vz1/ZvlnXoRWsDlrq5ueAL57bWDaNz5oIAxyO9enuOa7IbHnzWoyirIEozQBRooAKKAKGuzi10K9lzgiIgH3rymJdtuuep5NZzOihuPXj8KuWxJYZNc8jti9TViYYqxEm8nnFYm62B/lJFSwyYABPUUmM2LdlCKHx0p8oGM9R7VAFWQZGKr7eoq0Iq3cfyh6rzRhx0HI5q4mNRGTADYa3Z3HJUSDP517KSTz0rrpvQ8+srMZ3pO9aGIlGTQBSopgFFAGL4vYjwzcgY+YqvPbmvOVHy1nM6KA5Vz+FTR9eOlc7OuJbjcjOGq5DcsrAE9azaN4sc8uT9TzUD3aRT4ZwABU2uU9C5DrcOAoIYjqam/t6AYywHNLlFzotw3MN0gZX6/hTyMfjQguMKhuCMiqLRFG2k55q0RIz7yMgJIoJZHBPHSvWA2+NGPBKg4/CuqlsediN0NpK2MBKKAKVFIAooAwfGJ/wCKckxjmRB+tefjhaiZ0UdivJdpG2xW+Y8YHNIdVityV2NIwHoTWLTZvzWK39rXLuSYti9iBVy01MyyKjnp36UnDQ0hPU3I3G3cxrEveJXd5FVPVjgCoitTab0Mxp8MfJlJyedqkj86mgvVVvnWX8F/xNacjauc/Mkzcs75F5WK5+ojJzWumvWG4Ry3Ai/66Ky/zFZuDNVLQ0beeG5j3wypInYowINRTqd6sOp4FJJp6lNpq6IJIw8cmeC2cc16BprF9Is3IIYwrnJz2rppHn4joTmkrY5w702gCrTelAAaTpQBgeMn8vwxcyEEhCGwO+K8nt9Su79C6CK3TOBgb2P58fpUPc2pDZYoII2mupJZF9C5G4/QYrKfM6+dHBHHGxwAMsfxzVwinqayYtniaNdyLggnGMNxVveYIWkgO5lwNrMSDyO3Y05QViYSZ1ViPFEsJWC00wDYflldi386yZQYrJJp1JumX967L8wfOCB6YPHFccbX0OuV7alBlWZXEolwRwpPf3qrHpMrT7liC7jgZbp+VdlOUY7nPOLk9DatdG1e2AmglVcfwvV4Xa3lhNbXcRjm24JLdD6is67i3dG0VZDmtZNMBtoiZccK68MP84p66vIkgikudrf3JBg/UZ61ndS3M5Jx2NMahvUQscPtyD616jpiFdIs1J+YQqSO4yKqGjMK2qJyMUlamAhptAFWikAnWkIpgU9XsG1HSLm2QZZ04Hqa8ZtLEWXn2hiaNoJmTawII/OpkbUdxlxEt1cxpID5afqal/sq1bndhfSnzWR0ct2RyWlrEu2KPOPSqzRN51ugQKjygMuOSByf5Uc/cOXXQ9E0fLQO+D8qDP41hXNmy+IrmJ8/Z5186NSM4Y4yfzDfmK4ouzO2pG8SrJpN3BITGqumeMVYhF0hUC2bI64WtOdGKi0bFtBNPGDJlG/usCKTUVWKyeKSGPzHXam3nBPAqJSuy1HQda6cSN8jEjPQ9TU9zpVjcLiW1jfuCRyKXMw5F1K0emWGno00cCg47nP5ZqKPX2sdSicGRZCQQ3b6GnzO9zSFJONrHqkM6XVtDcJ92VA4HpkZp1dq2PEas2hppKQirSYpgFFIDgPHuqXltqlrawXcsCmISKI3KZbJGSR16VzFxLPPcm7upGkaRR5rkclgMAnHbHFZt6ndSglFMWMW8v3Xjb/gQqTyYR94oPxAFTc1sV5bizjJxJGcfwx/MfyFV4ka6uPOdfLRRiNW+8c9SfT0H40rgo6naaKwFtJGf7tTXVkLxVKv5U8OWjkxkc9QR6Hiud7nbujIGpxQrJHd21wlwhI3W7Kyt9dxBqsdaY58u3ujnuyr/wDFVVjIsRateHBWBRnvI5yPwA/rV+0tXnlF1dSGR+qgDCr9B/iTSYzRc4qJnOG9KEJlDWpLb7db6fcTPAJFEgZVzu5xiqmqWEZNvLFlgrhScdRmg2p7I9Q0YEaFYhgQREOv6VcruWyPBqfG/USkxQQVKKYBSYoA86+JluTqWkT4+Uqy5x6EH+tYETHyATzxWMtz0KT/AHaG7I3P71EcHrkUPFDnCW8Sr7IM1m9zpilYhmAReOp6CnIgRwR0poT3Oh0i8WKUnrlSv6VoLq9tYP5kjqMdA3esXFm6krGRr97BqdwLqFVVmTado6kdDWNaXYEpjkXDKfzqraENq5v27Qy4zjBrYhKJGqL0xUsGOc5FQ+1NEsy/FaPKbG4RMtCpQn2PP9Ksab5kliokU7i2AOtI2h8B6iEEUSRL92NQo+gGKSu7oeA92FJQIp0UwEozQBzHjq1Wbw6JyBvgmVlOOgOQf5j8q87sCZbRs9QxFYz3O2g/cJPb0pxkVUJPQVmzsg9DMe682UtjjoBTfOmDhlkxjqOuapIzb1L0N2wPzZ/CrAQ3rc9uOvakWmav2ONII4x/COtYmoae6t5kJw45BpDuTaVO8y5I2sDhl9DXSWzybgO3rWbQ7l5TujNNZSG5oAnjWPymdozIzLgAnge+KtaFZvd6sjyY8uA+YQBwPQfif5URV5WKqS5KbZ2THmkruPDCkpAU6SgA70lMCpqln/aOlXNmODLGVX2bqP1AryWFPKEiFSjKxDoR0PQ/yrKaOmg9GhG+99agv1K2oUH77BT7Vl1OyL0KwhCDPYDOaN0IyRImR1AOcVaJJI54gnLgfUVetr5Y1zFA8oJwGxgVLNYrQlv9Wv7AZktYgAM4LH8Kz7bX/wC1Quy0dGxk9xRYTa6FmxG2/LoMBxlh711MPIBHWs5blIuL90Ujfex2pASwxS3E8UEEbPKw4A7D1PoK7e0sobG3EMKgd3P94+tbUI6tnNjanuqCJaMVueeFB6UAUqKAENFMBK4vxrpcMPl6nCjK8r7JsD5SccMfQ8Y96maujSk7SOMK5xgVKUEtuoP3gc1zs9BbGVqOn/bF2K4DKc57Vl6JbNpV263MO6JuNynpzVxehMk3sd5YXGlfvGMZIZs8xMc/pWhbT2R08W9vbvuHKhl2jOcjNQ2kONKbKmo6W+rXJN1+7hwMoO+PepBpdraWuy3iVEA9OtQ5NmygoozrKJftD4PRsVtRLjHPSpYi2rc+oqNnywA7mmBs+GplTW9pP+sgZPqdwP8AQ11xrpo/Cefil+8G0d61OcKKAKOaKQBRQAlRzwR3VtLbzAGOVCrAjPWmB5FLC9pdS20gw0TFG+o4oVtpNcr3PSi7orniVucfSmlFZtxUGn0Gty3DMyIAmFxV2G4kBBBHI61kzpi9DSgkZv8AWN9cmrB+cbc0hSMt4hBdsQCOc9etXIZSRjOKZmWPNAXJ64psHPzt36ZoGanh/La/Bt6gtn6YOa7g9a6aPwnDi/4i9BKK0OUQ0UAUaSgAooATtRTEcR420orMuqQr8rYSf2PQN+PT8q5APx0rCa1O2jK8Rkrc5xQmdoYnvSNluaUcQbhiAfatKKyThfM56cjpWL3OqOw94yjbQfl6VOueMnoMUiJFLUMBw561HCxIB6DvV2M7lrO7irAbC89qTLidJ4ctpIrK81UQmRkRlhjzjeRyQD+Q/E1q+H/EGm+J9OF9pshIB2yxPw8TejD+tdkIWgmebiJXqM0iMGkpmIhooAo0UgEozTAKSgRHNBFdQSQToHikUq6nuK8q1rSpdF1B7Z8tE3zRP/eX/EdDWc11NqUrOxRxuHFOR8KRwMVmzri9S1ZzhXOevvWmboDJyOB94Vm0dUXoJ5zMwIxj1qyLgbPmAGPQ0cpEnqZtzceYxGeAeKZE3OO2aZBfjYgGtPRNKuNdvTFE22GPBml/uj0HuacI80kipS5Itno4jgtLRLeBQkUSgKPb1PvXzbpfiS68N+LLrUNJZfLNxIDEfuyx7z8p/oe1ejNWVjyW7u59AaBr+n+J9JS/sH6fLLC334X/ALrf0PQ1oEc1hYBuaSgCjmikAlGaYCUvagArA8Y2P2zw/JIozJbMJQe+Ojfoc/hSewR0aPNFbBIIpWPRlOGFYnehI5ij5wDirDXgxxjOOlKxopDY7ly3U49Kn855Mddo6DNJ2ELznkipYjk8dKTKRr6Tpd3rN4LW1TJxl2P3UHqa9PsLC20PTlsrX1y7kcux6k/56YFdWGh9pnPip/ZRzvj7XB4f8JXlyGAnkTyYc93bgf4/gfSvnKLKKBnOBjNdEziNnw94kv8Awxqq39hLg8CWJj8sq5+6w/zivonQNdsvE2jx6lYN8p+WWIn5on7qf6HuKxYIvkUhqRmfRQAUmKQgooGLSMiSxtHIMxuCrL6g8GmB47e2rWV9NaswYwyGPcD1wahArA7o7AYw3XikEQz3/GkaJE6IFHAqQDnikMY86R/fIz2FX/D+nX3iK/8As1ioRFwZpmHyxL6n39B3qoxcnYTkoq7PYLDT7PQ9OFpZqcDl3P3nb1J/yO3TNOz5jZJ47ntXowXKjzpScndngXxO8Tf2/wCIzYwuGs9OYoDnh5f4j+HQfjXF9OlZyepIpOBW54Y8Uap4Yu5LjTJwnmDEsUi7o5AOmR/Uc1AHp+jfGSwudsetae9q3Qz2p8xPxU/MPwzXe6bq2l61F5umX8F2uMkRt8y/VTyPxFS0Mr0v0pAFJSEFFAwBrL8Rawui6NLc7gJmBSId9xHX8P8ACmC3PH7O8kmeZLg5mDbiT71fXBHFZTVmd0HoKQaXoOoNQzRD9yqoxzVO5u8ZCkgdKEhtmj4Y8LX/AIqvQU3Q2MbYmuMf+Ornqa9r07T7LRNOSw0+JY4lGT6se5J7n/PpXZSh1OOtPXlQ6Zjt/T2/z/nua4f4g+Kf7A0N1hkH22fMcA77u7H2HX/9dbt2RgeBjIHzEsSeSepPqaXFYNiEYgdetCtgYoAcsgxjGCPepYbuW3lWaGVopU+66MVYfQjmgD6boFZDCjNAhKUUxjghJ6V5p4+vzcaklsG/dw/LgH7x6n9cU0OK1OCkmW21GJjkb8qT65rUSZkAPpUVNzrpvQuLMrgEnmkMnHWsrGtytPcEZVT+tbvhLwTc+JpRdXIaHS1b5n/il/2V/wAfyzWlON2ROVlc9mtLe20+xjs7OFIbeJdqonTH9f607Pr165z/AF/r+NdqVjibuUdUvYNOs5bq4cRxxqWZjxtA5/z/APrr5r8R69N4k12a/csIQdlvGT91B/U9fy9KibEZfOO1HasxETHnmjdjrwKYCK3A+nNBPYUAfUuaM4rMYZooAViscbyyOscaDc7ucKo9ST0rgfEHxa0nTS9vo0J1S5Bx5gO2BT/vdW/Dj3ppXEcDc+NvFHibU7exOpPCtxKsfk2f7pACcHOOTx6mtzX1C6jGBwu3AH+fw/KtEtDSByeuOYoomAywb9a0IpN0YPrWVQ2pvUsxscZFDy8c9ayN7nU+DfCMOt3MU+pTRpbkgxW7OA83vjrt+nJr2f7MtvAkMSBI1G1VA4A9OO3sPoK6qUbI5KsrsgYnPPQ9if8AP+foaapOC2Tz/n/P+FamR418W/FBnnTQbV/lXD3RHGe6r/I/gPU15fjHPP09qzlqxCnFB6dOKgCNsE008KScYxQAxentS596Bn1HmlzmoAcATxXN+J/HWkeF1aKV/tV/j5bSFuR/vnoo/X2oSuB4t4l8Zav4pl/0+fZbKcpaQ5WJfr/ePuc/hWEMknsK0SEdP4CtPtPimFsfJbxvKfrjaP1auv8AEkDCaKTAx6j8D/WrWxUDi9dG5WUdtpz071atiPJXHXFY1DeG5YjPJrTsNHm1IeYSYbfODMw6+yjuc1EY8zsaSlZXOhmsYIYkWIl2RQqux5wPf8q2dE8Z3WkH7PqLSXNn2YnLx/Q9x/kV12scjdz0G2urXULOO6spRNBIMhl/qOx9vw7muc8X+IYfDuh3V6cGRUwik/eY8KPxP6A+lAj5tlnmu7mW6uZDLPMxeR2OSSetJmsmIaWCnnoe/pQ2McmkBWnmRAQDlj2FRRF3bLZ29hQBOM4paYH1DVXU9VsNFsWvNQuo7eFehc8sfRR1J9hWYzyTxN8UtT1MvbaRu0+zIx5g/wBdIPr/AA/Qc+9efsSxYsSxJySTkk1aWghmO9PGGNMR23ge6i0qyvtQkheVnkW3ULgYAG48+/H5Vuv4hsNUkWzvLaS0LEKkzSBlBPqcDHb8+a0S0LiYPiDSpre0uo3XLhSVYfxY5rOs2YRLuBzWNQ2huX0zuVc43dK79IPJgjiVG2ooUAjt/n+VVQWrCs9ERyxtszsC9+f8/wCc1n3koCEMR0zkVszAztH8Uaj4d1HNoxaFmBkgf7jf4HnHHY1nfELxXH4k1K3gtw6QW675FbvKeo98Dv71MtgZx4HHFHtmshCe36VVmjcvt3kJjgUANEKKenbvUgHoeBQAozRzmmM9q8TfErTtJjMGlGLULwj7ytmGP6kdT7D8TXkWr63qOt3n2rUrl55hkDd91B6Ko4UfSpSEZp56UdaoAxigKM570CNHT9TbSrhWdDLbPxNED1HqPcdq2NV8qW0SSI+ZHKN0b46r/iK0iykavhPUJ9UWbS9TZZYIUHlTMw82Mf3f9sfXpU974fnsYlkCtJGPuuoOGXt+IqJq6NISsyipBPHX1ruILye6tIpUhI8xdxY459ePrmlQ3ZdXYbJFO5Lt8q9x/jWVeyxndDAm9+5GQF/+vW7MDEv2On2c13Lncv3cnlmPQda41MtlnJLMck+561lIB5pKgQ3vSHB/Hk0AMZcc9qT3zTATHFLzQAjk+v0FMJNADfek70AO7U+Mc59OaBEU53H26Vo6beeRbG2uRJ5JJeNlGQpPUEeh9qpDL6xQs6yQyl3HUhCoX6E10ujavd6cDGzNLG7AlZDuB/PpVoZsPolnqsDanaSfZVkYiSJiCqN+mM/1rStb37DpUFmEzJEhUvzg8np+dTCFm2XKfMkjOmee9kxyF/iOOBT4bUL+6iUlifStCDjPGlzu1VdNRty2nMvPBkI6fgD+prAAwKwb1AWoXLB9w6CkIUMCMg9acBlutAEJfe2V+6OnvRjHrQAZpe2aEBHz6CmmmA2gcnqaAQ8DNSH5UJHXFAFbl2CjqTXYWWj5gQ7fmIqkCL8Wjyjohx2ORxVwWEgT7uMfrVlGjpuksIluZEUueULD7oq+to5G4g7R/FVIRNHalvlQceuBVq7kt/DmiXepzqGaNMopx8zHhV/E4qZMDxUvLNLJPO26aVzJI2OrE5NL+NYiEPTrTe9AmMAG7gcUkvK7ATz96gBuOAPSimxi4pQOaQEPamnvTAb19acO9MRIvWllOF24oGS6Zam6vVX0x/OvTLOAiJQAePaqQzQSFmGAuc9qnNixKJxlzgCqGXZLOaVWB6KMKg6D09a3WezmsWBtpPOeNQiuMLF09+elJ6giG2tERhwPrXmvxQ1k3WqQ6LC2YbTEk2DkGQjgdOwP61LYmcMOBzSnpUCGnBphP+RQAjNtXJGT6e9IFIGSOSck0xDTRQMcOaUYxyKQFemk0wDFOUcUxEiDkUjfM2TQCOg8LxYl3kfM579gK9WstPURA45I7immUiw1uFbaB+lWLewMt0jOAyopOD78f1qhmiLYg9OPf/8AXTwAoYkfkKAKOqapFoejXWq3BOyFCwXP3j2X8SQPxr5/kmnu7qa7upDJcTuZJXPdicmoYhMHGe3vSGkIjJxxmgdeeB60ANHztuIx6U4igBpptJgOHWnjGP8A61AH/9kA/+E2x2h0dHA6Ly9ucy5hZG9iZS5jb20veGFwLzEuMC8APHg6eG1wbWV0YSB4bWxuczp4PSJhZG9iZTpuczptZXRhLyIgeDp4bXB0az0iWE1QIENvcmUgNS40LjAiPg0KCTxyZGY6UkRGIHhtbG5zOnJkZj0iaHR0cDovL3d3dy53My5vcmcvMTk5OS8wMi8yMi1yZGYtc3ludGF4LW5zIyI+DQoJCTxyZGY6RGVzY3JpcHRpb24gcmRmOmFib3V0PSIiIHhtbG5zOm13Zy1ycz0iaHR0cDovL3d3dy5tZXRhZGF0YXdvcmtpbmdncm91cC5jb20vc2NoZW1hcy9yZWdpb25zLyIgeG1sbnM6c3RBcmVhPSJodHRwOi8vbnMuYWRvYmUuY29tL3htcC9zVHlwZS9BcmVhIyIgeG1sbnM6YXBwbGUtZmk9Imh0dHA6Ly9ucy5hcHBsZS5jb20vZmFjZWluZm8vMS4wLyIgeG1sbnM6c3REaW09Imh0dHA6Ly9ucy5hZG9iZS5jb20veGFwLzEuMC9zVHlwZS9EaW1lbnNpb25zIyI+DQoJCQk8bXdnLXJzOlJlZ2lvbnMgcmRmOnBhcnNlVHlwZT0iUmVzb3VyY2UiPg0KCQkJCTxtd2ctcnM6UmVnaW9uTGlzdD4NCgkJCQkJPHJkZjpTZXE+DQoJCQkJCQk8cmRmOmxpIHJkZjpwYXJzZVR5cGU9IlJlc291cmNlIj4NCgkJCQkJCQk8bXdnLXJzOkFyZWEgcmRmOnBhcnNlVHlwZT0iUmVzb3VyY2UiPg0KCQkJCQkJCQk8c3RBcmVhOnk+MC41MTQzMTk8L3N0QXJlYTp5Pg0KCQkJCQkJCQk8c3RBcmVhOnc+MC4xMTExNjM8L3N0QXJlYTp3Pg0KCQkJCQkJCQk8c3RBcmVhOng+MC4yNDQ3MDM8L3N0QXJlYTp4Pg0KCQkJCQkJCQk8c3RBcmVhOmg+MC4yMTQ2MTI8L3N0QXJlYTpoPg0KCQkJCQkJCQk8c3RBcmVhOnVuaXQ+bm9ybWFsaXplZDwvc3RBcmVhOnVuaXQ+DQoJCQkJCQkJPC9td2ctcnM6QXJlYT4NCgkJCQkJCQk8bXdnLXJzOlR5cGU+RmFjZTwvbXdnLXJzOlR5cGU+DQoJCQkJCQkJPG13Zy1yczpFeHRlbnNpb25zIHJkZjpwYXJzZVR5cGU9IlJlc291cmNlIj4NCgkJCQkJCQkJPGFwcGxlLWZpOkFuZ2xlSW5mb1lhdz4wPC9hcHBsZS1maTpBbmdsZUluZm9ZYXc+DQoJCQkJCQkJCTxhcHBsZS1maTpBbmdsZUluZm9Sb2xsPjI3MDwvYXBwbGUtZmk6QW5nbGVJbmZvUm9sbD4NCgkJCQkJCQkJPGFwcGxlLWZpOkNvbmZpZGVuY2VMZXZlbD40Mzg8L2FwcGxlLWZpOkNvbmZpZGVuY2VMZXZlbD4NCgkJCQkJCQkJPGFwcGxlLWZpOlRpbWVzdGFtcD44NTUzNjg2ODI2MjY4PC9hcHBsZS1maTpUaW1lc3RhbXA+DQoJCQkJCQkJCTxhcHBsZS1maTpGYWNlSUQ+MjwvYXBwbGUtZmk6RmFjZUlEPg0KCQkJCQkJCTwvbXdnLXJzOkV4dGVuc2lvbnM+DQoJCQkJCQk8L3JkZjpsaT4NCgkJCQkJPC9yZGY6U2VxPg0KCQkJCTwvbXdnLXJzOlJlZ2lvbkxpc3Q+DQoJCQkJPG13Zy1yczpBcHBsaWVkVG9EaW1lbnNpb25zIHJkZjpwYXJzZVR5cGU9IlJlc291cmNlIj4NCgkJCQkJPHN0RGltOmg+MzAyNDwvc3REaW06aD4NCgkJCQkJPHN0RGltOnc+NDAzMjwvc3REaW06dz4NCgkJCQkJPHN0RGltOnVuaXQ+cGl4ZWw8L3N0RGltOnVuaXQ+DQoJCQkJPC9td2ctcnM6QXBwbGllZFRvRGltZW5zaW9ucz4NCgkJCTwvbXdnLXJzOlJlZ2lvbnM+DQoJCTwvcmRmOkRlc2NyaXB0aW9uPg0KCQk8cmRmOkRlc2NyaXB0aW9uIHhtbG5zOnhtcD0iaHR0cDovL25zLmFkb2JlLmNvbS94YXAvMS4wLyI+PHhtcDpDcmVhdG9yVG9vbD5XaW5kb3dzIFBob3RvIEVkaXRvciAxMC4wLjEwMDExLjE2Mzg0PC94bXA6Q3JlYXRvclRvb2w+PC9yZGY6RGVzY3JpcHRpb24+PC9yZGY6UkRGPg0KPC94OnhtcG1ldGE+DQogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICA8P3hwYWNrZXQgZW5kPSd3Jz8+/9sAQwADAgIDAgIDAwMDBAMDBAUIBQUEBAUKBwcGCAwKDAwLCgsLDQ4SEA0OEQ4LCxAWEBETFBUVFQwPFxgWFBgSFBUU/9sAQwEDBAQFBAUJBQUJFA0LDRQUFBQUFBQUFBQUFBQUFBQUFBQUFBQUFBQUFBQUFBQUFBQUFBQUFBQUFBQUFBQUFBQU/8AAEQgD3QLmAwEiAAIRAQMRAf/EAB8AAAEFAQEBAQEBAAAAAAAAAAABAgMEBQYHCAkKC//EALUQAAIBAwMCBAMFBQQEAAABfQECAwAEEQUSITFBBhNRYQcicRQygZGhCCNCscEVUtHwJDNicoIJChYXGBkaJSYnKCkqNDU2Nzg5OkNERUZHSElKU1RVVldYWVpjZGVmZ2hpanN0dXZ3eHl6g4SFhoeIiYqSk5SVlpeYmZqio6Slpqeoqaqys7S1tre4ubrCw8TFxsfIycrS09TV1tfY2drh4uPk5ebn6Onq8fLz9PX29/j5+v/EAB8BAAMBAQEBAQEBAQEAAAAAAAABAgMEBQYHCAkKC//EALURAAIBAgQEAwQHBQQEAAECdwABAgMRBAUhMQYSQVEHYXETIjKBCBRCkaGxwQkjM1LwFWJy0QoWJDThJfEXGBkaJicoKSo1Njc4OTpDREVGR0hJSlNUVVZXWFlaY2RlZmdoaWpzdHV2d3h5eoKDhIWGh4iJipKTlJWWl5iZmqKjpKWmp6ipqrKztLW2t7i5usLDxMXGx8jJytLT1NXW19jZ2uLj5OXm5+jp6vLz9PX29/j5+v/aAAwDAQACEQMRAD8A+uOlSbQyikZeOlCmswG7cUEMaJFLdKVflXFIBVHFOVRiilA+WkAHFNK5NB9zRytJCHpGNwz0pZF2sCOlIG7dqUYkbBqxjfvNSlTTyoSozktzTAc33fehT8vPNLgd6Ur6UtAE2gjNAzS9FxSK200APjGBzTn+dcdKhUsWNS7TikAqqFX1NOpq8U6gBu33oXIp1OOKAGbj0p69KaccYpPmoAcfapFOFAIqKNSx54qXbzUkjTnPSnKc/Wjndig/L2piDIXg9aVTQNjEZ60bsN7UhjTlRSck09/mxgUDjrxTKHqu1KY2Vp5YNwDS5HemBEAGqTAWmH7xxUgB256UEg3Tihc7aOWoVsqR3oFcevI5pdq1ApOSKkA9aoLj1UH6UmdkgUjBpyr3FOZTMylxyvSkO4516UzYR2qVu3an7d1AyML8uaZUjLgYFO8sbeaYyBhngU5V4wae2B0FCqcZosTYFXFScd6Yp5pxU0rIdhhBLYp+2kK96TyzmjQZMkY21G4w2BTcN0Bp6qabAbyKerU7huMUm3a3tUiFVhRgmmsvzcUm5uPSkwsSc0MeRSbj0zQVHWpsMO/FKh9aavU9qWM/MadgJN3NJkmnnNM3/NgUgDvilCim/wAVNPDUAS9aP1puacQF70AOVsZpO+RRt+XrQnCnNUA8HpmmP7GnbhikHWgBn3uvFKOvFK2BSLz04qQG7sSYJp8rAR+9K0asOetRbex5FACw/MuTSltvA4pyjApDj60wGbC3JNCqN2etKzcYpO1AyRunA5qLnPNPVqXIai4xuQKdkbajK807bxRcBeAMikzR0GKTccdKYug7NJt70q5ag5zntSEBHFAHFKPnFRySbRj3pFIVzg4pD2zTm5xxk0jN8vNMYhUCijG/nNFMDlWO6gelN5xTgPl60yBwHvxTT96lVtwxS7ewoABzTmIVaYQVpmC3WgTJOvvSelCnnGKeoG7NIQm8bsY5oZSrZp8mGwcYIpR8y81SKE3ZxmndcVE5+bpS8nFAErLtXJ5pFXvTlxtwaQKN1ITE6til4BpB972qRdp5oERl8txUob5aTaq8UuBQUJilU/L70q4FNoACdvNKPmpvLGn7cd6YC8DGBSk9KU9KYPWmA9aDJ82MUmcUqnvU2Exd3zUv3mpnfNOHrQSDR85FOQbutNPNIrEHA4oCJKxC8VG3z8dqXb360YxQUh8cax0bfmpNzN9KkSgGIyhc0mTt5qVlDDrTPL4GTQS9iPcRTlHenqg9akji3dCCKCCJVy2RzUgj3NyafsWN8E1CZMzbV6UuYauWVQU4QluaI0jWQB3Cn0zUxYrkINwHXFHMaJESx5bFTbQgqGCYzSYHy/71akOneYu4OGbH3B1o5kMzFwzcc+1Ky/NjFZYlkj1KRWzE2eFYVNDNNPcgZzz0FPmQ9S6sWTSP+74qx5bnquAKgli3HJ+7RcLCRqG5p+PWkyLdMqcipLVlvYzt5YelHMFmMMfzAdaVlCdakVHBORjFO8tX+9SvcCADd0p/CrzUvlqvAqGTihsQ1V3H0pzAdBQp7YxTWBpIoFXkU5l9KYGNP54qhDStKM0v1pu8HpQIcMDmm/xUjZNKoPSgCTecUi+tI3yqaSPpSYDx3o27uaRfvY7U7gtjtUlARimtksDTmwtIrDvVCHdhSheKSmsTQIfuA4FJuxz1pNp9KSgB33+elIybeaU0in5sUhoUUbd1LkUq0AR9Dil6A0rL370DmnYRHzzSqR0p+0etMLBW4FFgE2srcdKfjj1oU96WkMYy4pQPlpWpd3y4xTGIFLdqN23IpRIUHFMkYtTAcpNDZNJEx5Bp7VLJEVSFPaq/O4kjirIYYwab8vPpSGRbmxkUD5hzTyw6CjjHvQAzdtop3HeimBybelG7gUuOBmmjrVCJI1GPSjOGpF79qTP40AOYHr2oBB4pfM+XHSkFPQANKM0m3dQBto0JH0qtzim7qF9e9A0SeXzzR04qMs5NPAOOaQw5pPunNKzbaFw2KAHjDKagVSsh9Klk+XgHikwSvFArC7uetSfeHWmLGOM07IVc0hjl+XvS57U3hqWgBwQ9aTaSacrcc0u73pgN25XrTApzT6DxQAu3ikb5cClHz0jetAmHpT92aRcd6VgByKZIqsB160m0jJox055p33cUikIAacqkjJpVfDU5VJY0DFVfl4qZYwR6UsMe5iMZ4p80flcA5PpSuIh2jceeKZI6htqncaS+hNpaPPPMsEajJZiOBXlGrfHHw9ocsv8Ap0ZCcZPrUcxSi5aHq/mKwI9KntGXjeRGuerV8na1+2vaW19PHb24ZE4VwOGP5V5T41/a28R+MZfJif7HCucMvFRKolsVGi2femva9YaHG1xe3McVv6k4rlb74zeELeJfs+pRFwefmr4BvPiT4g1i3C3eqvNF027j/jXP3GoEA7Lpw5OSNxrH2lzpjRPt3xX8ctOuJJHtr9R5fQhuv+cVzK/tgPpMYihhEkS8FmXJNfH7RzMu9rl9vX71T2t+rL5b9KzdTU19kj6T1r9rC81C6MtuxgX+6vFc9F+1B4kg1D7TDPNweFLZU/rXjsMFvIoIP8q0IbeOKHAUGjnZLppHssn7YGt3F5517aBxgDEYwf51e0/9q6/bUI5UtpYxnq3QV4H9mRrhWIGM1pCBRhgMgdqlVGNU0fXemftXeZCv2mFXJH8NW7z9pvTvsO8x7G/u8V8nQhLiMDJXA6dKeqlVKD519D1p+1YOlHqfS8f7T2nrIuWUL3+lepeD/jV4Z16zj+z3qQyY53t0zXwWstu0hRo8fjimWpkhvN1rPLEw5G1yBT9oyfZrofp1YX1jqFuHjv4ZN3IwalMca8CRWY9ADX522PinxQmDBqcgKrx8x/xrq9B+P3iTwreRSXkr3ITGSxJq41bbkSo9T7lMMsJ+YcUyaMMAynPPNeEfD/8Aa90bUEa21ddsshwjHsfyr2bRPEOn69GslndRy7uQgYEitVUTMHFo0xCduaY8ZXqKdNIyvtwVYdakRWlXnArRMgq8DORTd2D0qaaE7s4qNl28VpcQMMfjTWXkdqe2NoYc05sbRng0AMZdq5pFbuKk4Zaj27aYDyPMpfLVU96ardqTcT3pMY1chqetOC45pnSpKFwWoWPHejcacpzTJY7Ctx0pwjG2mN8tLG27imIfkbcVGy0rdemKctGoDc0nfNONIOtSUN2ls05XI4p5WmbRTExWUdcUnbinbu1MPDGi4hcBqTaB1pGbaOlIpLdqdwHcGj9KZuw2O9O/GpARj+NA9aXbT9vy89KZSEkx5O7HNJxtBxzQrfLjtSyfdoAjVeafSKOM96U0iRMj0ppZVal2hfaonTnIoAsNtCZA5qHjrQmcYNKy9OaABkDY5opy4xzRQByfDUm0DvSCjPrVgLTtufanfw5xTVzmgBNtOUbu9En3Rim9MUASDihuaOgo70ANxR0NOcgUgbuaAJF6Zo8z2pin0pxxyDQAeYO9Jn5s9qjMYHTipFxjmgB5yy8c03J24oDHt0oOd3WgAXPc8UYPTtQuWzTkPqKAHKvyinKtGQvWlyMZFADuiikpVbPWm5wx44oAdRQvNDL07UAC8dKRhSqPmzT356UARquaD1wKFzu9Kl2jmmKxG2Qcinhd3XrTo155FP25bigYkKhV3UNKZBlQR704oVXGa434leMrbwToct3d3sdugX92m7DFvTFQ5WGotnW318NNthOZYwD3Y4+teUfEr9obRfho00n26PUbhlykEbhhu9ODXyr8Tv2gdb8USGw0m8kW3JJMgPP4V5FNavdXBnuZmmmJyzMeSa5pVDphS7nqfxM/ag8VfETdCrNZ2TN/q42J49ORXl2savPcRja7Hj5snrUwt1KgllAAxgVmzZFxtyClc7kzqjBRKkeZV44YnJyKuNYhlHmLlselWbFobWYGYritBtXtbj5EXD4wCajmLsjnZLQ7wFdlHpmr9na+ZhQpJ9abKkSSs8j8+lVrnxE1pCRbpSGb7aPJbqGklynpUtjHaMxEjdPauYtdZmuI91xL17Zoj1poJMpF5i5571FwsdlEtq0gCPxnjNaf2DdHxIuPrWDZxrfW6zR7YiR0PFUb28ayuhE99gY/hbgU+YGjo1jjWTDSLx15rd062tp2CrKCfrXFWd/o/H2jU03H1cVf/tbSLNi9vqkR9Pnp3Edyum29ll5JAePWnW13aQzq3BQ8c15JqXiy5eZjHdiRP96s1vF+pcqrBhn1oGe56hpFvcMZrYjkZ4rBgbyZnWQYPSvNrHx7q1qf9YQPTNakfxBd1/0lY8/3h1o1Ed75zR/Mkm009b7fCVuRv965SDxFa6kq+TcLG2OVJ61PLqm1fLJBPrU6hY2oI7eR8I3lseldZ4X8aa14DvVu7O7kYf7x4FeP6lrMlvMoibDZq/Y+PpIh9nvE3q3eglxTPvn4a/H7R/GK2em3c6x6k6jdO+AGPvXrfkTxPuSUTRdQynIr8udN8QJ9rDWshttp3eYpwc17X8M/2k9e8I30P2+5k1DTfumN+cCumFXozjlTPuWC6WUbW6ileNJM81xfgn4xeH/HqRLpp/0iRchDgc9+9dgsEyOWZT9K6lK5i42Fa22qMHNRn5uCMYqeTI5FRMhbmtCBm3ijaKVVPalGRwaoBu0c1EoCtmpz6VGqZOBQICxPbim1IOmKbt5qR3HIMc0Bvm6U1mMOCOR6U/dvXIGDQA2SiL5ec0itlsN0p+0dqYDiRtpoalWPNO24oAYGp+8DmmYoxmgYvmfNil6dqMKGHrTzgdaQiNeW4pWWj7rZFKGyeapAMZcihV296RuGpe1DAXaM570xk+bNDHIpyt8tIAVgtG4t9KYzelOX5l6YplIQvt4p7MKaBSt81DGDYxxTd22lWPvnFIzDpUk2GNJv6CgZpVXGeKMfNigYlPHuKb/FinsCAOKoka1FLRSA5Hbto4NKrbs0bMNmrQD9x6dqSlZcjIplJgKWLdqcT04pduFFJg0AKzdKQrntTSpHJo3Yzk1QC8d6exXbjvTOozR5ZLZzUgOjGKVhzzTenen5yBQAlLt70baVetAC9uKbzuzTmU9qM4Xnk0AEbUjEhuKRD81S8A0AIqlhT1+Xg0xjzxTuV60AKDk8cU9h8tMTFOLY460AKp+XimbjuwaeGG3nil24zxQTcTjHWhfXrSbe/rTl+VaAuLkfjT1U8U1StSI/zDigodt28ngU9fm+6N30pjYuX8tTgLy3oBXk/wAWf2hdL+H9nPa2TLPeJ8u9TSlKyKjHmZufGL4vaV8MfD8sskqvfFflhB5zX58/EP4k6x8RtakvNRvJUswxMcJb5R+FM8f+ONU8daxLqF7M7hz8qseAK5l7I3WN+eea4pzud8KdhkdwsMjeU2FJ44omvlVhz9ajmgWMCNBn1NYurTLbfLn5qwOlRN3+0o+m6q15fAx7k4rm0v1jhKknce9Sx34lj8puCe9J2L5SV9Xea4CtyB3q/wCdGzb1lClR0BqjDYbZF3YKmtuHwqt1H5oJVfrWd0HIZrj7Sd+9ifrVqBTJhGXH1ohs1sZtjNkA1txxw3WNo2kUcyFynPPp8k84QIQue1b1np4trcbuB606WbZIEjXJFWJbV7mDDNtHpU3RXK+hh6lezqrRWrso7kGsB/D9xdlma5Y59Wrr4bKKMleCaz7y3cXP7vIWnzJE8jOFbw24uCjyMQDRDocgvAAzbO9dfPp/nXKhSQ596fJp9zC3lRxb3PenzIOQy301oUGyRiPrUtrbyrhhn8a1IdHuUdfOQqtdFp+g/amWKLGTU84cjOdW3DqGkdVrNvtPy24SZXNdxeeFfJmCyhtuasX3h6yigiMZz6rTdRIXKcLbWot5o2U4P941v/bXVR5j8Y65ro7Tw7aagAhG0YrF1fwzJa3vleYTEelZqdw5Sn5AuVLq+49uaqzMcbJOv96r/wDYctrHuRmJ9K5/VL2Uz7HBXb6itOaI1Blz7d/ZkiPvzHnmu+0O++2Wf7sCZGHSvKzILpdoO8itbw94muvDauYCCG42tzij0G6d0ep6H4t13wferNpcpt2U5AHFfX/wV/bCstT0mLTfEsLC9UbDNwB+Jr4x0nVIPE1ik8Uq+bjDDpzUsuhsrbiWR+o2titY1LHNKkfpzHqdpr0MN5pd5HPC3JVTyK1xlVGRg1+bPgr4ra94G1i1d7uWWxhYHywxxx+NfdXwf+Meh/EyxjjNwsWoSAYQnrxXXGpfQ4507and8suajDfNg1oXFk9llJBg+9VXReorpMCMxgt61E6mNsj8RU2cVFISxqkQN4NMYEdKljTcwp0ihWpCK53MvTil37eKc+VPtTM0rFIcuG+tKv3qUKqjJNIFDHI70hj+c+1G33p/RajLYoAX8KcU+Xg03OVo5LdaYDUx5mTTnbnik8v5s0YxSAVW3Ujc9KRwBjil4xTAbnd7UtJ1NPH3eaAI845peoz0puCTinsuY/emhhhWHFPUfLUUamn4IpDEZgtJuyM4o2jPNOZh0FAXG7iq4xTG6jinMxNIOaQrgpB70fxdacFX8aa3WgLhtJaht2OaRW7ml53UxAKKTHNFIo5NfmapDjtSD5ScUhJ7irJFJIBxQpCryKKR13KKAJG+7Qp9ajGSBmpFZcc9aYDpGG2omUBQe9Kzc4prZ/CgB6dBmnFhmkXnFIV5pALxnNKW7UmduKNwZqAHKdpyelKwDc9KbyMUc0AOVu1Ky0ir1NJ97vQLqEa96HXJzmhV2ilpdRiq233pzHdTcU7tmrtcBIzT6j6nAqTG0e9SAyRivzdqm3+YowaZww5GRSxqQvTAoAcpPQ81I0QC7icCmqNzYAqR49wAYZoEyNWRmwDmnzBkjPl5Z/QVJDap5ny4H1rzD41fHLTvhbpUv2ci5vXym1ecVEpWKSuZvxy+MMPgDSRZQMkt3cAiQq/K+nSvibXtUm8SXVxqN5IzhmJAY9KpeIPFt9418QTX97PJKJDlUY/dqC7jeWEhScelckpnfSp23MKWUgZY5XOAKvJGzW+/O1fWqjQxtOEdsGmalcXVwos7VD6bsVzuR1JFLUtXhtcpGdzmsrT9CudamZ5AdpPWuu0v4bi4tw9w7CcnJUV1EHh99GVYUXcMdRWTqJHXCk2efweDI+knIFaNp4Rtl+8Oe1dd/ZbyZJUj8KuWOlDGWBOK55VDqjh2c1DoUVvgSrkdq0LixdbUJAp2+1a9xpf2j5QO9a1vp4t7UIAGbFYOep0rDnE2vh3zm3Spk/Spo9CRZ/lXFdhHavtIK81G8ZgXJGD9KXtDT6ujm20NUbdspjWaSNsAx610e5rpcAZNPi0V3G7Z+NHtB+wRyEnh7YxZfmpF0GRslo+PpXpOk+G2mbcVGKuL4fQTYcDGegqfah9Xj1PMofDETsGKgNV2Hw+Iv3m3OPUV6TJodqi8IPyrPuoYY4ioGB0qXVYvq8TiZ9MiutvA9Ktab4ZkhuFkjBGKlkt92oCCIFmJztFejeGbJfsISVR5gPORzR7WxP1dXOSGiyXcgEkZx3yK0bPwbZXEmyRfzrvRpMUiZVau6bo8HmYK4b1rOVY1jhUcda/DmBSTCuBSyfDONmLypvr02zt0t+CODSXkZbBTIWojUl0Nfq0ex5xb/D+zQ4aEN25Fchr3wPS+1CWZF2wt/CK9yit1zk1If3ZOBkU/aSRH1ZHyJ4p+Deo6TMW06JmB4C4rznWNKv8ATXMU9q8U/fIOK/QJrOO4h5jXP0rkte+HNjqokkltklkUcbh1qo4hrciWF00PhTRvF174Zvy8MhA/ij7E1614S+JVr4hhMd46wTjjLMAKqfFj4N3EeoS3mlWUm5eWhQcfUV5Kuhz2cnlXqtbXHPysCD1r0qVSM0eRVoygz6GuIUuod0brKp6FSDVrwj4m1T4f61BqFi7KsTBwFNeS+DdQ1KxmSLz/ADYG4Cselerx6fP9jzORhhnvXXGVjz5Lm0P0O+Cvxys/jJ4dT7UFttQhTaxz97HFdrIyW9wYWbDA4r8zPA/xC1L4c6lut5m+xyON4XPHNfa3gf4/eHfG1vYWvmSS6lIAvyLkk+9dkahwTptHs6Wy9z1pk1uo6VX8ua1bZJnoMGp0l3Lg1smc7RCI/mAFEke05zT2U7s9qWTG2rIuVmqJhzVhsdqZtplIjYfu+TTrf7tIR69KfGo6DipYxWY9KTG4GnSAZpv3elIAVetGcU4U08UAIJPm5p26mL97NLnmqAOvFAXHem9Gp/UUCGjO40v1py802Q0DDIpGJFCrnpTjCcUwI2kK09ZQ454prxmmLGWOBSGSFc55pdtG0r1FDfdpCG7R60M2PpQBxTWU0gHeZ2o96RY9tK2cUARnqBUjdKatLt3d6ooVelFN+7xRSGct93nNL5gZfSmqMLg80igAGqIF7GnK4xjvRkBM96auG5xQAvNHGeac2NvNN2Z5BoAf8pGO9Lt2jHWmqPm9KdvAbBoAPu80Eg02ZuOKRfl60AO+tMZcninj5sigA9KAGqxTrUok4zimbd3FKvy8UC6is3agH5aVkDEHpSMeME1Iw3cUq+/FN7UnahASNhj1qTKhaiVT1p5HrVgC9cgUM2Dk0hOAMUfepALuzwKliY7SpFRjPpUi/L1pASL8vIqV7pFUdCarSNI0Z2Atj0rnvGvjzTPh1ok2oX8i+eFykTetRzBa5T+JPxMs/Bnhe9vLl/s3ylI93BZsZ4r86fHXju98c61cTNIzwLIxBbPIrovjP8dtT+KGsSwzyKumq5YIoxg9K8g1DWGt5SlrIBEB6c1hKVzrp09dTp7O4ihbr8wFWW1JmG1FJzWf4B0OfVr4T3SM1vk5OOK76Tw7FDeRhE+QcjiuWbsj04wctDE0fwi12qzz8EnOK6X+ybe1iUxxDzB3xWq0YjjVY15x0qzZ2pZP3i81xSqno0sP3IIUXy0Z1CtjHAqTyhIflWtSGzRhyM1NDa7ZPlXArklO56sKKRmNosggMhXIAqlHCdpA4FdwqkwlPvfWsttFKsxIGCc8Cubn1OjkSMO0iBB+XmrsVoNpJGGrW07SQ0mAv6Vv2+hxsoDD8qTqF8pwz2s+MqmR60z+z2uGCyLj14r0CXT4rdQAufwqFbGN5OUFTzj5UcnZ+HlhkV1PHcV09jpNu0Y3Vox6XF1AzViGzB+VeMUuYOUy5rEWqnyulY1xHIshJBJrqLy1eNRzxUC24ZhlMg1Nx8py9xcPGuCO1Yt7JvQk8V2OuaWrYK8cVx82mzfaNhOUJpqYcpjaJA9x4mtmzj5u1euNZxwy4QYYnmuI8O+G5X8QROvCKcmvRZbUrchicDNDkHKiaGF4UHynFWbdxFKCRVuNDLGAvIpbnTx5IPRqi5VhJ5DKvHBpbWRvLKvSQR7cZ5qRY8yexpj5RjLgcVYt41K/NzT44dvUZFI0LBsrRdjUSfaoTAGKa8BZcjrUYc55qyh3Yp7jcexnzaWk2d0SnPVsc15N8XvgHaePF82zX7JegfK68Z+te4L8qZNSMytHlfvetbRbg7o56lFTVj86fEHhjWfhjqkkGoHfHG2BOgO386Sx+J2oTJ5XmtLH2JNfc3jTwHY+KLeT7RaRPIwIBZQRnHWviz4u/BHVPhzrTXNtGZoJn37VHTJ6fSvRhWTPBrYRx1Rf0nxcLpSrr8/cHmtPw78U5fBGvQ3mmttvVyUyT268V5fp2qfZZDJMhDAY59aRpVvL9LoL82fwruhI8ecGtz9Nvgj+2no3xC0+LSvEQNhq0Qx5zEBHGK+jLPytSsIb+znWe0k6OpGK/GuxhlHlXNq5juEA2svHNfRnw1/ac8Q6LoaaZeSnyY8ZY11QmefKHU/RTaghByAe9Uy27iuA+C/xz0P4xaT9jt8W9/bqASzDDn/Ir0R7F4VbJDbfQ11pnLKJF5YUUxiKVm29agkPfPFUA9sU1chs1GCCARU0bBvqKVih+zdyaYcKcCnFjjFRmlYBTSjBpp5HSkCn1pAHO6nBeaTHQU77tMBODRigAdfzo+9TEOztprYbrRtpT06UhoRGXp0pWYr3pjR55py4280FWDdv60qqF5FNC56cU7j1yaCRGfdSEcYopaChvK4pd+M5o+opSo2mkIjEmWwKcxx1pI1209k4zQAzcOtG7BzQq0u2mMQqW5ziinbaKQanI8tSfWlztzTffrVEjuKUAdqAwHtSmQHGBQIOuBTm+VRim9aKYheetDDIBp33hS7flxmlcoCBtFObG31pjIWpOjCgB/QegpFbJx1p5GR7UixgA0wE2/NTmA4prLUfOcUASZ7Zo2etR7Tu9al6cHrSYEf8WO1SKoxSFc8g0v8ADUgO3dhTC5bil9xSjBHvQAqqBTwKjwy96cvHU1QEin2qVYw5AxyajTFQaprdl4f0+S8uZVUoCQrNQBzvxc+IsHwr0OO7fyy0gOdzDK9MV+fHxk+MWs/E7WpGe5YWefkA6Yre/aS+OH/CwtelsxLILeFypC/dNfPuo6sYQVRsITtRT61zyaOunT0uWr64KjYnzN93IHJr1Pwb8FU1CK0v7pz5DKGYN9OlJ8D/AIXnXMazq8EkdsuNiSDG7vmvcJmSGNYYV2RqMAAVyTqHrUqLZgw6LaaPp6WlpGoRO+OarQ2amQsw5rWuFLcqc/hVMK27kVwymenTpWIEsdsm7qK0Y7cGPpj8KdDCMAnmrXAHtXHKR6MI2IYIhHxjNW4Ydz8cVArBmwBV6yYbua5nJnWiaG2XcCasNEpU/LxT1xxinqfmAxkVmXYSxjSFj8taC8Hiq3l/MOMVYXPSpAbMvmKciqVrCUlOea1PL/d+9LDZliO4pAiOMhKkjXdyvFTSWPpT7e12deKZZA0Zbhhmn/ZhtwowfpWkka8HGam8mOTtg1LKRzs2mtMfmHFVX8LiR9/SunMe1ttSxxjdistbjMW10mO2KlVww6tWhJY+aAccVsLEhh245+lMCeWuKq5mZkKvEwTotXW+7x1qNgWap41Cg55qiipaL87B+eeKuLCvao9oDZqeP5gPWqQxqx7RTim5MAc06TC8d6RX4460FEKxhM5HNO3bWpzDf161FtKv0yKoofvJ4zxSqSM84pvqcUAbsHNMxkSyTlkAz0rD1jR7XWUCXcC3HYbq2CA3GKaE281SbWxzSXMj5m+NH7O7i0l1PSI1QLlnjB6/h+dfNryS6VcNBNA0TqcFWGK/SW+0/wDtK1aGQHy2615H8VvgZoviez3RJ9juSP8AXRjBJrvpVbaM8bEYfm2Plbw9rUkLc8rXXRLb6pCWDmNu+K4fXvCup+B9cfT7qPdGCSkn94Vf0nVAswRxsUjFelTmmeNUpcujPWPhr4y1LwTqgudOl2W0ZzJtOK+0fg18Rdc8YZu23LEV53HIbj/P518FaFI3kyxw/OrYr2b4T/GS+8F6pbWdy+yxz8y54NdcaivY86dLS5922eqStlZjz3zWgqiRQexrldG1ePxVp9tqVo4aGQA7UPSu2jhXyY8Z+73rvTTRwO6KckZj6dKkgj7mnTwscEdKljUoooLuDKMcVAQd1Wm+7UDcNSYxPwpPrSyNjFJtPFZjF4pGcbaD92mKNzc1QtRU+Y4HSpGXb3o2Y+7TApDHmmMdRTWz2pei+9SwF3dhyaOO/WkjXHNObH40gG45p+wL9aQDilDA96BjKRsjnNDNtpp+YUwF3ZpCp6g0nCdqduBHHFIYqc8Uu7saYG2nOaZ5nzUCHq3z8UrE0zkEGnbvU0AJ9o28YNFOBHpRQM5Pb8xzQRto3GnY3VZJFu5p+ePemleeRTT8ppEsm5Vcmnx7WFQeYW+lKGK9BSGS42sRS7+2KZkmlP3aQxd3pQVzzQqHbmk3HdVICVegpjtnpSs3ahcfjQAkWd3zU8AF6SkBIalcBzYRjik+9yaRhuanKOxNMBBSbvlqRgV47U3aMYosABunejhuRSKOaeFCrmiwDl5xTvL5pqL37VPt+TIoAgmL20Lz7CyIMn6V8l/tZ/GO1s9Iks7e4YPL8hSM/MOlfRvxG8fjwj4Kv7l49pVWAJ78V+XPxG8SHxh4ouL9nLozZ2k8A1EpI2pwcnoc1faob5hIRg+vf613fwl+Fp8Yagl9qKMtlEwYHPDEH/6361l/Dr4cT/ELX47dCYrKP5p5sfd9M19Qw2Nv4e0yDTrNFSKAbcqMbvWuCpNI9mlSb0LbyxwWsVpAojgiXaoFVppUC/zqrNcCNMk81ALgTZJ6V5056nr06TLHmBulRY+bNJ5gTGDxSrIJDwa5nI71AkVj2qXyy60yIYbkVaUr371jJm8YiW9v8vvViGFlbpkVNbtGqgd6vRKjL71gaIZGo2+9SCQR8DrTWY9F61Jb2PmPlqDUmt/3pGRzVrYFxxSrbqmAtTMg29eaRJHtJYDtV6OPatQRjParStuUAipGhKKkwuBTGpDASeXz2p6zhlyOD6UwLu4py6fKuXUcVLGSw5kYZ61cWBdwOeaq2+5W+YYqaSYhgVGRRYosBttDng1Te6JYDGKc0hbgc0rCsMZTupw+tRRq7SHdkCmrIFmxnPNOwE6QPK2Aa1bOxKJ89MhxGoIqX+0AFweKZRDNbKJCc1G0O3kc1K9wkjYBz71JDhsDtTAzJpCjUJcfNg1Y1KwaNxIp4qkylm44oEKZirH0p0M+7inxxDAzzUci+W3HFULclLbeaWOQZwelRxZZuTxTJsiTHamZuJoqwZcA5FZusWIvIdrDgdKljcqw5p1xN8uOoq1JmMoXPFvi58O49e0nzAAZo+hxzXzL4g0GTTZdoHzKea+69QsVuIGXbndXzX8W/Cpt76SVI2CYycDiu6lV5dDy8RQujzr4f+Il07VxDOjSh+FA7f5zXf6pbNqTMUj2v1HFecR2a6RcJdou5xyGPSu+0TxQLi2jlbaZwecDrXcpXV0eJOn0Pafgj8ZtR8JSWWmzktEsgUhicYr7eh1yLVLOzu7fBimQMSvTJ6ivzfaFpgl3AMOeeO1fR/wP/aAsNP0ldG18+WqH5XY16FKp0PLq0ban1B5pxx061Iredx0rlNM8c6RrCp9ivElLD5U3ZrrLNfMh3EbT1rsucZHIvlnHWmNzU8nzLzwRVbeGY4oGIWAbkU4MMHmmMu6k/lSGJSBTnNTbQy5qPeFbHWmA7zMdeKEO4momBLZ7U9FPapAGbDYpvLH2p7Lg+9IuaQAMr1o27uaVh6ik7UxhvK8Ue+eaTA60mcjmkAnVqXOOMUqgdaRmw3A60CD7w60beOlCrtpaCkJwvGM0gX5uRSt8pBobJ6UCY5+gxUYzzTjjb703G1aYgzRQPpRSGcx19qFXBpnTinKDjimIGwKRlBGKXBApAvekAgTaORQzcVI33aYtACK341MFLdBRsVVzSBm7cU0A7lRjNRqfnp3XlutN27TmgCTbmkVSD1qPcc+1SKwb3oAeWC8GgOGIHamNy3SgfL2pALJ8p4GaSNiMk1IGBHWo2U8mmBKvPJNJ97IHWkjIxzQRzxRcBvKHBFKsgU4PSn/hzS7RtpiJlxtBHSmyS+Wrt95VBYr9KrS3Zt4S4UsBXIeP/iLH4V8M3d/GglmVcY7LwetSxbs+dP2nfjW2pfatDgi+z24JQ/7R6V8bjS7jUdfh062Qma5YKrY4x7/rXZ+MvGV3418UX9/dH5WkbCr93rXd/C3wFHtXxFdn5UciJV5JIH/164akmezh4HdeAfBtp8NfDy26OJbudQZpO574q5dagnkkn73r365/rVe6vjcyZIwP7tVpMMnIzXBUk2e7QiiKSZrjp0p8THhT2pEKhcDipFTuOTXHI9KMSRQXyKfCvlt61WBdG61bgXzME9ax5tDoSLMcgatCGISL/wDWqhGu3AArUiwigd6i5oEMKrJk9KkkkMIG0dabDlnqzGm5sdazYJGhpturRh36mp3UBvl6VHbMFj296ljUt1OKksmU/KKVefpSrjFSwKu3FJgLGwGBVmNN1Vnj2+1T2rbiBUMtRRZWOopF2mpyyxjrTNombg8d6Y3EW1hEjBj0q/cThYwo4pkcKxoMU1lEnFJkFeSRn+lOV9q+tTLDu6in+SuBgUhogW33fOR+lNgYfbOenStu1txNGA1Qw6WFuqQx/loygbfxqsmjwXE2f4u1aclvxtUZqxpNi8b7nXii4FFdFnVhjle3FR3WkNHG25eK7I7VUYqK4jjkiYsOKXMwOFtbIngA/lWnBbiFfm61tQ2sTLlAAKiubMbdwFXcDEvn3LjtWXuAY1o6hEeo6VmdWpie47aynI6U3zATzUm/auKjjj8xjxQBG0u1uKRn3AHNOuIfLGccVHGQ3FUgZZ2jaD3pNobrVeSRkcc4HpTmuAy8HmmZtCSfLnAri/iJ4fTUvDtyFUNKy88c12y5YVh6/wD8e7r61cZamMoqx8gahazRtJYzx7Sh4HfFaPgnS0810kP0BrpvH2nhtQM4j2vnlgO1Zfh/yre+WR+hNelTnpY8CvDlZ1tndfYLSSN0zxxmueupJrtiRkc8YNdPq9ttt45dwMb96xBCscwCtzurrjI8ycbnsHwA1yaz1S0a63ERHue1famm6k140bRuJI3XKlORX5/6Tr6aTJC5JTaP4e9e7fDH4tSRW8UBuNi9ME4PPeu6FToebUp22PpuT5chuD6VBtHUVm6DcvqViJzcLP8A7SnNbCIWQZrqTOZ6FduMYpcblpGU7iKVfl61RIAEjGaYU/OpGpe3NMoizT0YU04NBXaODzSAV23N70mCOtIuGODT+F460WATduWmE4+lL7U3HWmMcGOKaflWgNR1qWIVeVp4YdDTVXvniojlmPPFICViO3NML0/AVeuabtB5xQMMbu9KWxS7QKaQX4oEKPWjPzU7FN4BzTKE3fMaKTjJxRQFjlOcZNPXO2gDtQG2nFIkOaAxxginHj2pNtACD5uKaud1PVtuTTeepoAk7UBttN3c4pHY0AP3Z5pFOTg0qEEc0nSqAXb2o8sqaZg9amXlfekAhpFYg0n8VFIAOPMANWZFVYxUG0D5m7Unm+ZwOlACqM8d6c3ycGmKhRg2afJiRgapAG6nMxVelIqAd6Rmx16UAN8xY4W345GOa+Uf2oPiJL4btZdK09YZ0uwRKpGSvOK+ovEF3ZWOhXMlzKqSFTs+bBr8+PiOrax4qvt8rTxs3ysT0rKUrI0pw5pHm/hPQ/7W1mK1nRkhmb5ig6c19Bx28Gg2MWn2p/cxjAz1z61yXgPSYtJtXdowWJyGbrW1cTb5S+Sa4JyPoKEBbm4aNsgdaj+3EfLUDziR8+lL8ituauKZ7FNcpeULIoYdauQ/cHHNULdwqg9R2rRhlG0etckjriwmjKNnrSxybWAp0rblyetVt37wYrnN0a9vHxvJq9bNuk5qja7vLHerkJ+YZpGiNBR83A4qxDHuPv61HDMqLjGTTlOGJB61LGWVXb1NP84q2BxVeNjnk1MrDdntUAWYWLGpQrBuDTIpU2jmrCupAOeaAuI+dvPWpoc+X71XaTdxir0ONgyKhotMh3FjyakjJQgg0km3dnFLH8zVSQzVifcq0MPLfPrVeFiq4PWpGk6ZNSxE7MdvAoibbwaVMMopki7frUjRrW7jYKHVlbcODVXTpiVINXkweppXsMm0uTzJgH5roFZVGB0rDs4wkmQK1IY3kU7azAkklTOAcmluI/LtWY9KqeQY5CeafeXDizZM1cUAzTbOZoWf+HJNMvJHSMqBW7pzwroYctyBj0rBvZQW+U8UAZskAkgbI5Nc3JH5dwRmunmk+XHeufvrN9zOOtWmJkDckipIZNhwait1k/iFSyY78UAhLmQMu2qTRsnIqaXC89aRJVbg9KtDexXZix55pUYKeRUpVd3AqJkJf2q0ZFlZBt9qoarCJoCwGSKsKcVFeShYiMVdgtoeTeM9IWa1digz9K83vNEZAHhOPWvZNfUTLIp6VwGvWDWce9MlfSummzyMVHS43T7pZtJW2nO51rA1iFrK4SRD8pNWLe5CHpz3pNatzdQhoz+Fdq8jwWbS+Vc6bvbBIXOas+CdYK3+G3OqE/dHNcl4cuJo5JLaUnyWGMNW74VuIdE8QeZKpa2J+bFawbT1MZxufZvwp1IzWsE1tdsykfPFngV7TZyrJCDu3ZFfNnw4li1ZVGlkxocZAPWvftCsGsIEUyb2I5G7OK9CMjzaseVmhcfLJTd3FPeJpPm/pUfllTzXQcwjK23NN5xzUnJ+lMbOapFjTSUu72pKYxAOakHemrjdStkZ4oENbIIIFG0sPejJ60FqQDAuDzT+BSAbu9BX3qQG8nik2svU8U8HtR9aAFVfloY/KAOKB83egrtzQA3celO5Xmox96k3tvxjigCXdu9qikJ6AU7dtPSgmqKQxVYCipA4HWikM5Vfl7Un8VPHSk+9zSIHnDc02mc0u09aAHZ+XBpuDjrxUmPlo2jvQBGevSlb7o4pc80rDctACDjFLgseKRuKVWK1SEx23HHWmDIOKeG560bcHmhjACjcO9JnmmMjdakB8jKy4FNXKr1ojA70pxzigB0eWbHWpCuOOlRRnbz0p7HOOaYAOpp07Ilqzdx605cKoJqjrN/HaWcjPwuOTSJuea/Fa3t9U0G4V737NKoLBi2Pwr45vMXmqFYjuIYjd617T+0J4sgvoYYtPmbcxKupryHw7aDzAWU4xyTXJUdz1MNC+pqfPZwomMYHNPE37v61DfXHmSbByOmaZ5oVcZrhk9T3aMbErOqjjrTJJRuAbpVQyHfk0ksuSDXOz0DXh4UYPFa0LBYx61g2s25QK01Y8HNYyNIsvsvy5NIF5z1qKO83LtI/WrNvtVssawOhF+0YKuDV+GMMwrPtQJGyOlaaH5QRWbNUSNywAq1BbcZJqpB97Jq8kw24zWTLFdSFyOlJC3UE8Uhb5cA8UxPvgA0AXYwFXGalUhe9MWNVUHNS2+PMwTmpAswjcucU9ZjG2D0qP7Qsb4PFT/LIuRzTAVjvXIp0WR25piyANipgwHIpDFJfrnmms7d2zS+Zt75qPzAzUmM17VWMII60S7u5xS2sm2ECnL++k54FToUi1YWhiUs3erW1s8UiMAqgNmrLbYowxP1pMuxLbyeWucE1ftdU2nBBAPtTNJuovvfKwPrWlJNby/ciUHvWdh2I5bhNu7HWqTXCyNgdKsyruXGMCqUapHIeapJkF2S7EdqqA4HpWRI4bJzTr64HQVW5aHinygQzXCq3BqCSbnnpUEilZCCad94j0o20ERsw3HtVabJ6CrzxxtgZwarSBUbGc1YitIhkjqsIyvXir0ihVzmqMjfN14qkFxnmbWxT45M9RTJRt5Apsb7q0QtCztz0FUr87VatJeFAqhqX3WC96ZL2OI1nhHJrl9UUSW+CMqeK6zWLd2jcVhPEiWzCQZIreB52I2OD8R2Z0+GOaEZ3deOlUbO7M20k5rrdahLaeY2A5HGa5aztxGrDv0rrgzwKkbMZrP8Aoc0ciHaGHYVrWCpLEGOCzDvWNrKmS2BJztqp9qn+xo0ZII4NdKMWeo+F/HWreF7iGC3lzCzjaB1FfW/w919fsUEqXX2qeVQ0o3dDXwt4HvFv9Qitp59smc7jX098LNLn0zUEaC7EobnBPWumnuceIjofTVrcSzRqx6Gpm+Y80ljG8NjD5gGWUGnuvcV6K2PM6ldvlPFIuOSRQ2Q1MZvxoKI/4j6UZoyc4HFJy1MYmcHipN3qajXr0p3agQkjbelIDuFLjtjNGdtABijmhTu6U84VcmixRFzuz2pxYcYp/wApWmyKI1z1osFhjMQKTc2KVWU8mgyAtgUhWEUFvahlI96GfYKBJuUUh2FVsdaQ46nrStzTU+9g1SGOVd3UUU9vlopMDlNwx0pF9O1NYE9Kljwq880iBF460/pijCkZ6Um7IxQApYetNakZueRxUgxtzQBG2McU0ZqRlpAw/GgAboDQuCBTj8w6ULGcUxDGT3pVbseTQVNKMfjQMQ5zkVImD3qPPFC9eOtIBXK54FNXPYU/AHU80uQo4NADGjL9KUqY0pUb5qWbBHXFADo1MkYbPFYXjY+TosrBNwIrY+0FYSidua8b+PXxRHhfR2s7Jllu5lwwPOwEVMtioq7sfNHxOvhJ4hZIJN5UnKjtmotDd1087xhqxrKMXV81xI295G3Etya6SRljhwOBiuGTPosNTSKErfNnrULMN3JqOaffkL601YTKQCcGuGWp6kVZE4I6VMtuGUE81EtrtUetT23ythulSaEsa+VgrWhbyKw54NVVYA4pN2WrGW5tE0NwDYzUizFuM1RjJ3Vp2saqw3Dk1m0jdM1dNwsQz1rQS4UcGqkNuAuQav21uGQkjNc7NVcbGXkbjp2q3DGy8mnR4UAAYNTxqWHqazZoN2/LSLjdmpvLY9RTCoQ9KkY/zDjGatWCjfurPIrSsQNlAEs0YZ/rSzboLfg05iB1pryCSPbQBWgvBG3zHmtFrgSKNpzVEWKucsKsQ262/TkVLKRKshanIQzqO9VGmOTip7VC3zZ5pAb0I/djmkZ2U4xxUFu54yatMynGakBkLN5oO41ZvNQcJtYcVWICnKnmnxutwmx+TQVdlrR5HDqQ3y5rqYWJXIrn9O03aykn5e1dHbwgKRmpLuI9xtBBrKVma5Yk8VoXBjTgms5XHmZHSmpCY+RAVJNQbh0HSpWO7jORS/ZRt3A0biKcluJG5qOa1EY4q4yBRmmXnMY2809B20OfvvMifKk1X85j945rUuY2bqKz76BVt9wGDV3Mxs0xZcA1WkJVcmkh+770T/MKokdHOsgwahk/cuMcjNRqQrbehqRmDYBq0CNCOYNGM9azNRuPKJY9KtQ9vSqWrBZFK0+opM5q+ka+c7OBWffWqx2/IyTWrCvluynpUc6pPwRkelbxPOrbHI6tb+dagAVx727wyMD0r0u8sQoPH0FcxdaKZJmLcKfauiLseTUjfU4q6H7thnIqFJBFZsmK6O+0ZY1YAVzf2Xy5ikpIFdUXc4pRaKWll4tRWRMjBr3H4a69qH9s24juCNxAyDXkEKRQ3ionINdf4PvJbW8xbttnVsg1001ZnLU1R+gmga1dLpltDPmX5R82M4ro15Uc4BGa8m+DfxAOraLDp97bO94vBl4xXrNvcJIu3HKnFelF6HltWZHNUK/K1TzfeNQtQAzrk0z1Gacajz83IpgNyVY96kVht5PNHysc4pGxTKEycn0o3Blpyn2pv3WyKZIDgcU4ZfAPSjeKbux0pXHceq4pJSWBpBIFHNIW3dKm4XI44zu56UpXa3SnYwMik29zQAjDd1oC7e9O70rSAdKABcZpjfeBFLu3Uit2NUguO3bqKT7tFAXOZ70nAyaeynbmoyNw9KBC7e1PVQo5NNZgqjvSj5hSAVsNilA2rTckUu4Y9KQDlPXNRkAMDjilUY605iNvtQA3fg0vmU3bntxSqvqMUAKc/WilyB2pMiqAbTlx+NFKFHJ6UWAY0YY+tKsZpysKVc7uaQCbcVGYy3WptpY5xUsUQakBy/i7Um0WxEsS7nz0r4w+OGtSX2viR5t0rNyg6AelfX/xOuorHSbiSWXy0jUsT68V8G+KNet/EHiKbywwYOTkjgisps6aMbyuS+H8yXAz0HauhvXLIcDisTSojG6svTGK2mz5Zyc1wzPo6fkZiRjOaf5gWQEdaXPJFNVNshNcjWp2rYtJIXWkZtpBNPGFQHFNfEi0h9SxCwlUY/GrCRjOKitFSOP3qfcO1ZNGly1CgXHGatq2GFZ8LngA5q+pDYPes5HRA2rNS2BnNaiuY124xWNZyMpUitQSl8ZrmkdSLEeW7Vdt1ZVyOtVrb5eoqwXKMMHisykTF2K9Oarsp6mpeGGRwaaenIqbDIWPHSrNpMYxiolZR1FTiSPApAWfvLuzUazFG4GaaJty4Xmk3KOM80DLSzBjUcl0d23OKbDt3VHdR7JN2aTGPOWwB1q1HvjjHrWetzhlxWomWjU9akDQ08NJHk9afcKRzk0yxmCDaammkA60WAS1j8zqTmtKz0sDDnNV7CMOw5roo4wsQxUSKRFErJgD8KuxzNGPmp1mqscEc1PJaLJyKktGTduWyadbQHy+ec1fktAqdKj3qg2jigGZssLRtnPFV5Lx0bbnitKSMSZqpJZjk1dkZkazlgMnirAYeUOaqeTtOKkIIXAosUmV7ycKSOlZFyxkyO2at3ysXqvtBFVFEFVFC5prfM3SnMCJMVMIeBWtiSsbUNIDio7i3KtkCrU2V6UkTZ4amBXibA54rJ1CUmU84FbtzChjJAwawL6E7TmqREihMPkyOSai8k596NpReDVrTYxcXGG6AVtE4amqK08OY8ms2a3WQbcc1011YDaRjArGmtfs8wPatkedKJy+pWi7iu3muevNNRcmRefXFeh32mrLH5icmuT1h9kLqy5bOK6IM5ZROH1KwNo63EXIzU2kalNb6hHMmQM8nHFaGoL5lrtUZNYE800TLGOBnk11qRzOPQ+1f2a9a0y6tZpbi4USH6e9fQtm9tJGXikEmTXw18CbyJWSJGKdNw/GvtPwxZJHpcEi5CkZwTXfTlc8ytDlZqyINuTzVdsZ6VaumG3AqizVqcgMB2qNselP3U1qCkMxQ2KVvY03bxmncLiqaDw2DSooxSMvzZouSIQB7Um7FI79qT3pCuLt3CkWPbnmnKwHNKzAjIoAYxOOKfuHlgd6ZS4HrUldBu47vQU1stzinMD2qWNvlwetUIgTPTFPkUJj1qRm8s0xmEhzincBobI5oo20UXA5vJ5FJzn2p2aWqAQqMc80uAORSN6UKtKwDcihfvU7YAuO9NVcfWkMkU47ZpZBxmm0me3WkIUNtHtQxLdKT2IoztoANpbil28nNAcdqN27tVIQpG2gsOMc0mCfpSKo70XAXaO1P7Ui4XinkZXNAxFbb1qdRlgR25qrgt2xVqzkAlw3ekB5J+0NILrw+YwfLITB7Zr4XtYQt9OM5PmHB9K+rv2p/FU1rm0X7wOAR6V8t2Fu11MxwBnk4rmqHbh43Z02kwfuQSKtSx/Kece1Nsibe1VBSyt3rje579PRFLy9vJPNOWMlvakkYM/41OWG3ArGW51p6Dd23g8injGMio1G7jrUirt4zWbKuSBWAzTlkDdOlQyXHUDipII9yjHSoH1LcW/gj861LaIttzWcjgIFrTtGKqOM1jJHRGVjVhTy8VqW65AaqEeGQetWoZP4c1zyidMZXNFXHHarC/Muc1nRSbpAp6VcOVIxWTOiNixzUEkh5p3mYWk2mTBpFktrAs3Dd6tf2Vzw3FJax9Oea1IVwtHKIrx2ghTB5qlNGqyEgc1sMueKzbuPY1OyKSIcbBmoppPMFOZi3BprbQmO9ToIqtIFYVqw3R8lcVkooaTmtRVVIxUtIRdtmZsN3q20hdRnmsmO68kgA1cjlLKMGoewy7b3DQ3C4zt712dlKk0I+lctptqszgmt2P8AcYC9KzZVjRh3JLkVoCYKuTxWfZ3QUZarqzQvzvWpuBEbpXfB6USW8Uy5HBq7EtpKvzY3e1QXCx7iI6YGVLA8eQpzUfzKp3VbuGMPJrPa4MjH0NaRFYilIZhg0u/K4oIAY03jNUKzK9wvWqpjHUirc3zEjrVZojn2pokoSRfvM9qk3fLinXELKM9qhjrQRJsLc9qZ5YycVPuwoFR+WTk0AVplLcVSurYSRnjFam055FMuUDQsAO1UiXqcXJA0bsQcin2EpWXd0qaRtszKwqOxA3SA9u1axOOa0Nd5BIox6Vl6nCChPer0EecE9Kq6mRHjd90962OBpmdbxyNESMlR1rF1CyW6kYFcg11dniO3c9iKxrpVVj6k1pGViHE4m+0g28b+Xz3rjbriYk9e9esXdrt6jINefa7ppt75iB8pNbxldnNOFkdb8H74w61AyPsAYZzX6A6BKJtBtXRsrsHSvzM8K6lIviJPsjbVhI3Dsc1+hXwrmk1Lwjbu0m8hQflr06J4+I2OyebfxUQzzmpVVenpxQ4yuK6zzSOgDdSthVxTFcA0hiMvNBNIz7u9NX5qBC/eo5XmnBTSMMLzQAzhsk075QvvTCDjI5pFOetADtv5UuMLS/wimFm7dKAFMZ25zik2lhkUoOetKOc4NADd4XGetNMx7CkZvmBIqTcGXgUAMVvM+tKfl4pF6ntQ520AOVh34opqHNFAHPFQDikXvmkJ/Onrgj3qwE6Ubg31pd3rSEigBQ3Xjmmt6inZ4pAS1SAm7ijhcUuMdqRxuOelADtvPWkYc0butICetCAMUopGzS8lRmmIXdtB4pqtuJ7U6miQLyRmpEPWP5S5PFOU++RUbXoljMW3b705PlUCmUTY2jNQX0cjW++M7WX5gamWTPGKkt33eZuGVCn5aYj47/aZ1T7dqa4JJj+WQ4/irxnRFyrOOM16r+0VJnXpoh8qs+7FeZ6Lb+Xb569q5Kh6uFNSPhOvNPb5kHFQqMNU4P7smuNnrwK0ltu56U7+ECnCX5sGkPLdKiRsmxIoyrZ7VNwc0bNyilEYArItMheEN0FXLdvLjA71Duw20VL5OOetZs0RNFlq0IyVUYqjCwC4PWrit8uazZtE1re6EkYHQ1KrHzAc1lWjnPPSrpkZSMdKyZ0RZtQzgMozWmsZdQe1cxDdfN/WtGK4kZQd5x6VhJHVFmusZJwTxU5iwvFYn2pw2N1XLe+Kj5jkVBqa9nC/3s1qxtvjx0NY1pfL+FaEN0hbrQHoXoYsAk1kahIBcYB4rSlvljhYDkmsSRvMfJpgMmYqoYVGzEqCammwEqDAbio6jAKCwI61OJiMA1XQ+W1TyD5d1FhDJnP2hFzxV+O4EWBXNLdsb7rwDitr7QrAEdRUNAdfo82/HatWS52tg1xmn6xtcKOCK6GC7+0DJ/GsmmXfQ1VnEkeM1GilW4Y0+C3DRhgalSNW+6wJqUBbhbao+bmrccirHkmsqNjkgngU6S4H3QcimBbuJRNwDmqvkDtTFmWMnJ4qVWDruU5FXELkLJioDIFPBp9xcAnYpyah8vOPWrE2V5Jgrkk1Omx1Jzk1VuLfLc1XZXjYEE7aZFyxM24FarKgjapWBZcgUzyzvGatEsUxt94UBtuQatBdqjnNV5cbuKqwrjdu6hiqryuaXp1NIyiRcUCOc1SFC7sq4OOKxdOV9zFxjmuxa1BkOVyKo6pZJHbkxrg1aMpx0KEcm0Y7UyZkuFKsuapwXDCQqeatMuea1TOJxIdnl/KOlUrqz8zkdjWh/rOB1pky+WozVkNGVcQ74TxggVxuvxjazFea7e4yiM3asHXdNW8095EHzJzWtN6nPU1R59pVo0erRtCm1pGwTnrX6Bfs++b/AMIQYp4Sj4ADe3NfCNleIs0T7MGNhk19+/AbVI9U8FwhWBKKMjua9mieBitjr/J27j70kg2irFwNrED1qvJ82a6jyiN13LUW3bxUueDTMbqBkax4Yk07GOnWjvSFiG4oGSK2F560yQ8UgY7uTSt0oEMDYFJ3o6NipeHX3oAj8zHGM0fepWUKBnig9iKAGKW6UoXbkgUUb+MGgY1utKD26CkbHUUu3CgnvQIa3yn2p3mK3FHselL5fzUALtC0Uw9aKAOe49KXcPpTWpNvGaoAb86THAPSnrimtTAVMGnHjpSCPimkUgHUUp7U0mmANGT0NO2YA5pu7oKCTuzSAG+9yOKeuGXpxTWORyKWFc5HapAadrGnYFMVQrkE1JtHSgBdqOuR1pqtTYvlYg9KeODQA+M7TSzXK2NvLcEFgiEkDvTM7uKbqHOnzx4zuXFV0EfDPx41Y614wlnRWSPO3aa5TTQUjwRiuu+Llqtn4ymhI3Zbd+tc3tC8iuKpe56+GTHL88nNXPlWIqaqW67n461aZcjB61ztHqx2KvlbvmFPxtIqZV2DFNkXmsd9DYj3npUiR5NNCla0IYV8rJ61m9CiuIxuzipf4aezBOvSmMwbgVmzRDPL5znFSQyN5gHakXB4JqeGMbsjmoZtEuqAqgDrU0aluDUEaFjz1qcSCPrWbRtHckj+VqsrK/pxVa2xJJz0q4zooC9DWbR1RK7TOZM1ft5T8qk8VAIlpzI3YVHLc15jSSTYwINXLa4JcYNc/HIyt1rTs5NsisDuHek4tFpm49we4zVYzKHqOaZGyQ1VpGG3cpzUDLGpXJWJdpqhBcPvG40TuZF5NRRMd9A7GkXG2orq5PknBwKdHyvPSqWoyR+Wy5xRa7JehnwyFpzg55zW/ZrwNxxXHw3v2e4PIKg881qSawkiZR8HFXyMnmR1cKrDIHyMVrQ63BCBuavOo/Eexdr5P41JH4ismb942D7modMPaRR6a2ufLhXwh7Zot9YNvJuUkr9a81k1+KRdsc2e4xVyz8RCCLDHcetT7MXtEektrsbKd7bD9aS31RJiQGH1rzZtdhclnk/Wp49dRowIZMH60ezD2qPQbjVoh8rHP0NLp2rssmwEtGa84/4SWG3k2zS896mHj62gOEO76VPIL2iPS9xe4LDgGrkOfrXmumePlvJthBUfWu003WUljVgc0crQua5sSRhqiNuGWi1u1uX9s4qxcHy+BUjKnyxriq/G8kVYkXPUc1EVA7VcQ6CPJxgVDsLGpG+9Toz71Yis8ZXvT0Ixilum7VEqkUCZYTGcGszVomRWx0NX92MdqewSZCH5q0Q30OGhiHmPnrmrO3cpHQ1sSaTbxyM+OaoTIokIHSqRhLQqQxVX1kGPYQPwq6sZ3HFRahCzYyOK2RjLYj+xpdaYTtw1Y1xst9PnjxztrZW88uDYOlZ9zbfbo5FH3iK1juckup5dcx7W4Xjdn9a+1f2WWjk0Nm34AX7ufrXx3qVu9jcSQyrt/CvqP9k4yGGR2LCNV6fhXq0G7niYuPu3PoK5bMzD3qDbzUkjDz24xzUbt6GvQseFcZIuFqPhVHNOZ6jOKLFDNpZuKXaV6ijbz15FO+91NFihBhjSmm/dp3HU0gGtCxy1QrIVzzzVrzMDAqA2+5qQCM2RzSq3y8U75c4NIyhfu8iqAjp3HGRxSYpe3IwKWgC8cYFK3IFR5HanZ4pABz2pPMJYc0FqA209KoBWcUU7yw3NFIDmuG60/wDh4pnl5GKTZs4zRcB/86bt5p23im5ouA+lfGKjDYpPvdaAHbd1Nwc0v3elOX6UAMH3sU77pGRSkqGGBTiQaAGE5o6UNx0o6ikAi46kU7dznOKTBA5pcA0wExn60DPek3c0qqWGaYxR60s0Yls5h1bYSP51IuNmKb8sdvPIegRs/kaOhHmfBXxQnkuPiVdh+NrFfrzWXJ8jYzWp8UriOb4jXssX3dx/nWQ3zMpNcUz3sPsWLVdr5q03FV4vlYDFTSZLVzs7k7agTULNubipemc1F5YLZFZM3TJY8EjNXltztBBwDVBSQM1FJNcPIFQnFZjuaN3EI4xk81BDC0mOcD3qC51eC1hZXbdNjhag0u4kuvnY7R6Cs5D5jXuLWCzCl5Mk+hqaxaJwShyKqx263FwiyZKVsx6THD9zgGs2bxmivuIb5aaxLNzzWqsNvYoDNjFZmoahZW8wwflPXFRfoac6IftDRv8AIeK0Yb2KZAM/OPesqbUNJKHbPhsVkf2laxsSkm45pctw9olsdp9qRRg8fjViG53L8ozmuEXW1L/MeK1LPxNEy7U+8PelyGsatzoLqQryeKZpl15cjEvlOmKzZNQa6t8k81Dpu9i2emeaGtDphUudcW85QUbK4pY2IGKyrS4ZFMY4qw1w8Y4rnasdVy3IN3U0R/LwOtR28nmKCetW44trbqBoinvDDGQTzXI6pqjkOpJAz1rp9dwsO4DHfNea69qDNKyg4Ga0ijnqSsIt8+5v3mMmnXWoSW8G9WyayGZ2GRRdSyfZ9jV08pwSk73Jv7cuDGT1qp/bbXUnl7dp9c1X27bdjjP1qijgfMRijlMXJncaRd+VgM2R3zWxJrNuq/fFeZw62Y3CeZhfrU1xqabR8xJPpUcg1I7K71pOdjZpsepGOPeZCD9a5aO7RFUhsk1ZWRpo8E8Glyj5jd+0rfZcyEt9asQ252g5rL021WCMsG96vxzmQjnAFTZFJvubulyfZ7jewyoFdRYeJjHH8p2D3NcTbw3EigKTtNbdnpoYAO+B3qGrm0ZNM9C0vxGWhUqwJ71v2OuiVfnO4157p7Lbr5atkDoa19Pm/eDkjmsuWx0Rlfc7+yv4brIY4anyEdccVhWbFGBztrUa43RjPNKxrca7bmPpUU0hjxUe/wCfg8UMu9vUUE31Hh/M5qYLkdKijXaalZtvSgvoMcbetHUU/wD1ikEc0xvlqkYle4j/AHZx1rn2mzI6nqDXRu46Vy9wvl6hJnjnNWjGpsSx53A+9aa2q3Fm2RkjnNZyOMjAz3rT0+6EltPHn5tpxW8Tnb0sc4sSSyMF6AmmrGYZs0llG6XksZ65xitB9LmPzDrjpWqOORznirTY7i2E+0bxXuX7NuvW1rp/2UBfPb+FeteLa5BPFDmQEJ0rqv2f5Ht/GkJRuGOCtehRep5mKV4s+ubhgzccE1XfPermoQ+RcHI+aqzqWHSvVPm476kWM9aa2AcU9vu4pkf3uRxSuUN+7TWOQDT5V28jvSKn7v3oLBeV96TtRBld2aTHU0mAtPU03HFDfdFIobIoY8UBdopVXv2pXI7VSEVmmYSYAqZUO0E1H/F0qVWLCkyRjKEWmqc/SpnQbcmouPWkMTb8/J4pSvzZHSk9qXNUgHb8dKKMCikBzbZ59aVVLDJFKzbscU7f8vSkAzkUvl8UobdThn8KAIjil205wPShl/EUABUY4oVecGhsY4GKXaGXPQ0AIIxuNIeDQuFNGfM7UCEoHynNIRto3UDHZprUtLxigBq+tAyvFLSbgKY+hLHluKS+QNo18Bw/lsR+RpFfbzikuWI0q8fP/LJv5Gi+hNj8+/FEbyeMNQMv3hKwojUBgD0qfxfJ53i3UCOf3xqEY3ha45HuUdIlrjsKGzmjbjGOaXPPNczOqO5Hu9aVqYxwTiopJGVtxOFqLXOhMlkuvLTZjmq4upGyFHNZepeJYI5BHwce9YmqeMHt4WjtE3yPxkfw1DTRLkzfTTVmvC7vk9TitZmSJR5QxXEeH2voQJppTIG5IJrZ1C+njh3I3BrKUWHMzoodatoVIlkAde2aRvFrS/6tsY6V5lfa8lpcbpgXPtWZeeOrtm8u0gOOx20/Zthzs9S1TxNK9tm4lHHQZrhtW8UHzC4m4zgDNcjdaxqmoSbZQyj0xTxYt5eZQT+BqlSXUPaGrJ4kDSg/eU1u2epI8KlMA1yFvpMrsSFwO3Bq5DBLa4VmOfxrT2YKTOsa/mkIUcirFjIYZ8lutc7FfPFHknkVENZZmy3FHsro2jOx3trrDJdBC+Vre02/f7RgHKGvLbXUG84YbrXbaHOwKlnyK5pQsddOpqd5E5WUMDxV9W8xhjvWFazFoxWzYyblGK5JRPVhK6NS1TbjNWmwe+BVVWCcmmXE+xM1CXQ0uQ69MGsyAa811O389mxyc813F3cGbKjkVz99bx+YWUY9a3jocVU5T7PIp9MVI0LHg81qtavMxVVwe1SSaMLfb58ioW7E81vqzjbSOdkX92QRxVJ7USKcDitrVdR0PRlH229jTIyBnrXH3nxa8M2sxiRvNxx8v/6q0jFmXMiTUNFY/PHwTVCPRNQLAh8jPaor74jDUtp0+0Yw9uOTRYeJtYkYrHZMBgnJFdEadzFysdBb6bMsY3Al81p2un3UnRTiuEkm8cak7PaWJx6YH+NNij+JcPyJZEBu/H+NEqFyPbHrOm6XcSAAg7a3rXRDIw2DLDtXiFrpfxNvN8YlEB9NpH9au2Hhf4m6TdC4W68xsfdOcfzrndEuNZdD3JdPuIlGFIq3aWly0gVh1rxeRvipcDmJSP8AYX/E1Paw/EsqGMTjb7f/AF6z9idMZnv9rpk0X30was2qyQzKWU4B7V4XputfEJZ1F3C7RKDnj/69Sr8TPF+hzh7i0+Xurr2rGdNo6FM+i5rpmjDRhgvrU9vqBEeWORXhdr+0tMluIrjSHLDqVAGatW/7SmkNgXFg8Y78jj9Kj2VyvaM90tZvtDDZyKvtH5ajIxXlGj/tAeEGVMzfZ2bpkk/0rvdP8feGtRt1lGswEEZIY9KToy6FxqxW5otPiTFW0GVBrMh1HTdWlzYXcd0M/wDLM1qW8MkbbWGAKzdOUfiNVWjLRE9vHvbrVe6wrFe9SvJ5bHHH41WYHduNNJAQNGT2rJ1K3BuA5HOMV0GRt5rO1hFERYfnVqJlPYx2/c4A9KdZsY5C2ajs4mvpGUfw0qq6TmJhitUcUitHuXUpHPQnINalnPIzcmmQxLu5OKn8ghi0Z/CtYnPJaaDdZt0vtPkWQfd5GKz/AILazaaP43tWvpPLUvgEnHfFaUkgWMrJ0rN8O+ExrXiqzitcFlcOTxwMiu2lo7nm1noz7W1CdNQeO4iIMTrkYOaqzegp0MItdJs4QeUTB4qPuQTXqx2PndmV/wCI8UUrLgk0lDEM3djR5mOlNbqaSgpCgc0qrhsdab3FOZj1ApjF+lNLZoX5eDQetIYu3P0prYXpR+9U/LjFOLLt5+9QBFt6UMdpqTjGc1G3JHFMkcxO0VFw3epDnaM8CmxqGYiiw0gX0ppBBp6rtalbnikAwNRQI/WikBhUhAxT1Xd0NMb5WA7VVgBU4zQr9RT1YbcdqZxziiwDc7venbiajP3qk4xSsAuDjJpBnrQ2doxyKVWGME0gFwKZ92lGdxobnrxQIaWBpN3FIyjHHWkGc+9Axy470jHB9qY+akXlRmmgFHI4pGGKd04HSombc2KdgJFkI4qLUt8uj3cUZ5aMj9KDkfSi6Pl6ZdStnasZJP4VEkPqfB/jCwSx8WXqE/OZCTVe1i8xs4rT+I2xvFF1MhyrOao6fCzRh1OK5ZI9ii9CGZjHLg8VMGAGe1R3kMbNulnSId9zYrJvPF2kaTHJ5l2j7BkgMKz5bnXFq5o3DM3+rFYGrX8kcZV8gVzV5+0Vo1lG8dvYPLKOAzJwa5O/+ImpeMJS9tYPAMcbVOKFCxrc6mYJJPjeOfU1J9lghG5powe/Iri/+EX8S3wWRbgIG/h3cj9K1dJ+EOqa5zf6i0ajrtINDjcReuPGFtouY0lV+eg5qrdfFCyS2xIxBNbtj8CtKtmy+oPLJ3BxV2b4X+GbVlF3sPbk4zRGnzMR5Zc/EfTZZy0kTSDOB8prQi+ImmwqGisGY44+U/4V0/iGx8HeH8LHZQycZyOa5NvG2jxhkg0tMA4B211xotnNKpYtr8UrXcC2lNn6H/Cp3+KmmLjfpzfkT/SsC41u1vFaRbZVX0xVrTfEmmwKqyWKue/y1o8PbUw9rqbsfxQ0qZV/0GRfT5T/AIVTufiXpayYW1fr6H/CtK18QaDdIq/ZI0Y9iKtPp+k3CkpaRknmo9kzdVLmPH420y+4CmL6gir1vq2nzYAkXn3FZuseH7O5kXy4hEeh2irC/D+0uLUGCfbLim6ehpGWpv8A2SK4iVopFZvQGti2unso0JODXn48FaxpaefBdtLsOdgaum0XxFb6tZtBestvex8bSeTXDUpM6oVLHovhvUpGXzLhsr6V3WkRi8jEkf3a8y8KyW9yvltOiqOSzMB/WvTdEks9Ms1ka/hCH/bH+NebOm0evTrI2l0W5vcC3wTTZPDt/CjCZBt6Ve0vxbpFphzqVuMesoFdCvjTw3JCZJNXsjxyhmX/ABrBRZv7ZWPN7iwaOGVlU/L1NefeKPHGk+HyUeUTTEfcTk1Q+PHx+h0q5m0bwuyTy3J8uaZCCiKepUjvWd8MPh/b6pp51fVFa5DJhfNz165raMLas45z5jHtviF4i8RXc0Wi6cytGOGkGMenUVVvvh7498UXn2jWdS+zA91Iwv616bJeRWEkiWsSxAdNo6VzvibxJcNaNHFIWlY10wOY5S3+Hui6JcBdZ1ZtScDG3kfyNW47fwbbsVttM3P03Esf51VtdJcqZbgsWbn5jTJpI7QEovzD1NdcY3MzWe8sNOt2kgt1jUfw8H+lc5dfEYafIfLhXb9B/hUFvp+o+Ipto/dxk881NrfgFbS3+Y7nNdtOBz1JaGdf/E7XGjMli/kp7AVkj4seLY8n7f8AKP8AYBq9F4ZWxs5HlbKgVyFvdWo1Jkk+UMcBe1ejCjCS1PJlUlc6SH4qazqMyiS8YP6gVsw+MdbOC96zJ25rlk8MxXF+kkLbU6mtu6sGj2iMjgY4rV4KlLcunWktDtdL+I2pWsaqlwWJ6iur0v4oX5ZIpVG09ecZrxRllt/mJ2uD0q1D4heEAybiwpSy+lbQ9KnUk9z6Q0nxlHJcKuFBYd+a7Lz7aeESvboc+wxXypZ+NN2zaWDKa9I8M/Ep5IViuZOOgrycTgeVXR3xlc9OvdNsbpi5towD6KK527+F3hjVJTJNbbHPUhjVzS9SkvMbDvU8/LW/babJey7F4I614ErwdmbrY8T8dfDT/hFZRcWeLiybpgfcrgtStdlu0qXEinrtVyP619hxeFrS40u5t7k/aFZCdrdiAa+NteR7XWL632t5aOQv+FdmHlrqctZO2h1Xg+6v7GaxuNPvZYZWIJ3MSPpgmvf4fiPrug2O6YfaI9uS20f4V87+D77bJaxFcFPWvbf7UW+sUT+6uCM131IxktTzU5Rd0dzpXxmsHtYWvrUxbh9/B/wrpNL+IGh64rLbXC+YozsIx/OvGtY8saTGGXHpxXPWVq32pZbaQxyrznNcToqWx1LFVEfRra9G0m0LlabeahFdW/lrjca8dj1zUrPLvcja38LGpIfHj28qvISVB5rL6u0afXOjPQVun024RgduWrbvpoZ1juFYB8YNcBqXiRNQ8ll4RhkfWorfxEZpPs7MRKOR6VHsWT9YUjumjMjKVPFTOjxR8NzVK21BZNNVgP3gOKPtT+XvbNS4uI1UuirPcuWKs3NWfBsktj4ttLiNyuXUHnqMisDXbtj8ycc9q2vBuppfXlrlcSRuNzfjXVS3OCvsz7YuAPsVq694x0qptOc1Np8i3Hh/TpFYN+6GSDUUzV6i2PnpbkcvbsKjP1zS/e60rL6UySJx3pAKew3cUvtRYpDWXjOaZuPpxTwe1O2DHtTGRsehpFO7il28+1GOeKAF+7xTGXdTjnbSBTSAMAKKTIzzTGkZXx2p3l5+bNACs3QVHtG7I60rLnrTdoXnNBSHrjvTUx5hzS7ty1HtKnNITJ5F2mioBI3rRQIxl+XpSMu6nuAvPakXBWmAxcdKbJ8p4qVfpSPtLDIpgRUFT+FTMqrjjFRsp/CmACQAYoH3sihVFN65xUgPbPrQfmGO9J2FIaQBjC0nVulL29aZu5zQAN96l6UFdzUmD09KpAIzH1xUfOTUhqPvSAkX7tRapK7aLeQgZVoyD+VSqu7mo76dbfR7iRx91c4qWNbnw78Vry18J3F3d38UrxxkkJHya+ePFv7Qst1LGPDtjNHCOHaZcHPtXvnx8uF1mLWD5Tb1V2DkcfSvknSYo4LOYsAGBOeKwPRpmo/jHWPE12zPPKssmP3YPFdHpfwzmvlWfUbmRC3JTPWj4aaLZXvm3Mi5mQ5FehzMGVQf4eBVLY7oFGz8I6HDCkf2GORlHLslaf2W3s4QtrCsQHTatPRVWMGjdubaKRqtyrH5zSZBIrVs2kjGS5x3FMhtwvJ4qrrmsQaDYyTOfm7LU2behb0RPq+sQaXD50j7T2rx/wAcePJL6YLC5wOhFVfEXiG61/e8m4KfurntWPotlHNdRRTLzkZJr0qVJJXZzSqW0LGl6bf+IPml3BMdWq/Np8emutsVVmbuK723s4ba3jjjAAx2rl9e0111ATqCFzXQrHPLXYxrqyS2hyw2Ac1m6dq0EmorEqdeOa1/GdtNJo4mhySvUCuP0m5828tvLhYup5OK35UcVS99DtrjQ9kvmg7SemK3PDPmRsRI5IHc1NetDJYxsTh8DNO8Dxm+vZkk4jGcE1lOKNqdzXZopjggVXltvJyUdl9gao6vDcWGoMEy0YOdwpRrEa43HI71k0dfU1tN1G5t3w+GUcZNc58TtFVrEatZkwTKfmKd66a3SG+t98TZzWZ4vm+y+GbiOTlfesJ000XfU8ysNS1iONZEuZWjPOFNTPrmrXGYY7q6fv5amvQvgl8O5fFluLlwfsKEBj79a+kvD/gPw3opXNhFJKB94oDXh16kYaHq0KUpnw9MviOZlJiv2Ue1adva6i0YMlteqcdSBiv0F0PRdFeYB9MtR6bohXoek+DvCn2bE2jWrI4wW8pT1rg9sj0lhZWPyws7UNqVpG0LKrygNuGOuf8ACvsKPbZeF7CGEbI/JTp6461z37TfwRXw9qMev6HCBpocFkjH3KvaPqI1TwjYTLztRUP4Ct4y5kcNSLpuxz9xIVaQ9c81zc0arO0j8L6muquFG4lumM15f4v1KeXUDbwtiPPQV0RtcxNS81yO4m8lG6cGq7RpNMEzjvWPb6bertYQNj+9VySGdGUkEN611xaEdfpLQqPLjcKw70/xNiS1GJN3FctDBIoDhmU+tStZy3OEM/X/AGq6YSsc843Zj6lfKsfltgKeCG71z19Z6c+CIwG67gK7iTwCbiRWacOvXGa018CacvlA5bPB5rsjiIw1OaWGctjzyOQWsYMI3jHFT6aNQvLzKW7uPQDNekXHh3T7FRFsXj2FbPg24i066a3e0DI4IDbeRW8cwhJ8pUcK92efSaC+pMI50+zsR1PFT3Xw1lhtVIPnIw6qa9SbwWmp6llCRGedtdxpPg1reKOFgrRj1GaKmK/lOyNNo+VZPBFxZzMESXH0p40W6spA7yMqgZ5OK+wB4asIYy09tE3/AAGuT8VeB9M1y0kSOIRntt4rhqYlyep0KLPHfAPxIuPDd0YpVE8TDGW5xXsWk+OlePzYjzJz9K8b1zwWNBYhlYnPB7Yq14f1Y2CiJj8p4ryayjPU0PeNF8XorSNPyGUjiuQ8G6PoN/4x1BLywS7SY7grrnHFV9HkhuoQQ4Jx61rfCOSO68dXsUmzMYPQdOK4rOL0FuV/H/wti1i7jbQ7aPT1j5OwYFc7JDfeHol+0ASMvBr2fxBeJZs6xtnnnBrzHXrafVLhySdmOma1jOXVhKlG2hhXXi+LUoFilQx7famWNxG5ykgxVdfD8zTlGQYPtSr4NuouYJMH0rpjNHBKi0a5jF9Kqs2e3Wl1LwzMqbl5UDOK47UJta8Ph2cfKp4bFS6T8XGhj8u9BdhWqaZytW0Z1emzSeUYZQUkXpW7aaf8v2gyfOBXLWPi3S9aulEUqpMf4ciultGZl2BtxzwM1PQSRrab4s+yyrayKzBmxuroLjxBHDthLA+2a5C+0t4bNpzlCOd1c1b6lPDcrMX8xVPSsnG5vGVtD0y+23kOUbArf+C9jHqHjCC0uCREzAnHfBrkbLWIryyEg2gnquORXpH7P+jPqXjKCZFJX1HbmlDSRnWfun2BLDBFaxw2w2xKMBR0FVDEWU8VqtpphyvTFVpbfy4yQcmvTTVtz56V+xQ8rbxjmm5KZzUjMdwyKd5e5c1SMblY8nNNbrUjLtNMZc1RomR8+lKr8kU3d2peMUFDuKaeOR0pQw6d6jYZbk4FACq+408n3pFwq4FNqWUNak3FfpTmUnHFIV4GeKYhPSmtz1FOHpQynrSAaoPal8zbkUwbgeKNp60hBuH0oo25opgZDLxg8VEsZZsDpUjfrQrbeaQDQNtG0NzT8buRTGJWmA5sd6Sm5LUu0ii4DWU7sjpSqop8ZG0561Hn5qQCMcNQwHWnSetMVdvPXNADQ3OMUuNxpxX5elInHWgBNwU9eaTPOc0pVS1JleRTuALioZEy3FSBeeKkVeKYESMRx0p95tk0yaNgMFeacVGM1JDGk2EkHyNwaTWgz41+PGg2t9LPZx4gWXhmHv2r4C1KS40nXL7S5g0OyRguf4huIBr9IfjxpjrrkohhIt48ks2e1fIfxO8B6feeJk1+ebIZBG0AxtwOc1z2sd1J9Cl8I4VOkzTNkN6V20Y3tntmsn4a29rd29xHBH5UceAFHTHauvXS0Xdt9aD1aaKCwsxGOlXbS1JlDNS+W0OdoqWCRm9jSNUGqBYIWYttGK8l+ImsPeLHGmWX2r0vxVIv2P8AeNgYrzWezN5dJHEu+tqe92KV7HN6XbveKsbggY9KvR6PJDOrKvyjvivQPD3hNbWMtLDlmFXrrRlhXBiyvau72isc/s7nEw3l5FIpRC6rRqd/NcriQbSf4a6JtPuI1Ihiz+FUY/D1xcXQ81ME+1R7VIv2Jyt21+1q0MMBmQ9+tZ2lRyW8mxrPZJ24r1rTdGlsn2rEGH0qynhmBro3LRDze2KftkQ8Lc86Xw9qM0ZldSiHkVp6XK2nWpij/wBZ3Nd7NYzyR7DH8vSs6TwvbxfvCPmNHtkw9jynLLqssgMJXzG78VmSabcSytshYKx9K7IWkUL5RefpVmPA5IAFDqoXKcxpul3djPGwY+X3WpvilJFD4TKY+eQCrupeILa1bavzNn0rivFGuN4iube0lXau9VC+vNW17rZH2j2b4AtLY/D23Rl2GQhj+VewWKiSJWbrXnHhGNdD0Wxtiu0KoBFelWeGjjZT8pHSvjsQ7zZ9fhV7qN3S+244PavQLN3j0wAvzjivPrKHzHiOe9d+Lc/Y02n5cda4j0eUxfGWnDxH4J1mykwA0DsMjPOMV8mfCnxfa2t1e+G76TYFlaKEt0yDX2TbiNopoHGRINpFfDfxb8It4P8AiRd2ifufNP2iNl4wSTXbh30PNxdPS6PT9Y8PzRKywru3H5SDkYriJPBrpdedOnJ5zis/wz468QWWqW2nM/2yNjhN5wQK9o17Q2dFYrgsoJA7cCuy3KeOouT0PJ7hZYf3ewbB3ogtYrheVXNa2sW8kcjRAcCsKKYQkjdg5rWMh8pdbS0Zdo4FOh8JwuFdpMH61D9rZcHdxW1Bdq0Qxg/jWvN0KUULaeH9v3Hz2zVy18ISTzAs+5R0q1pt7A0e0thq07fUVjXg4xWMpM6IxSKc3g2NyrSLnbXUaD4fsYZEneMF1GOayG1wqQoO7NX7XUi2D0rKMveBxXQ6qF7G3k+VQG+lWFvImkGZNo7VgwXVtIvLjP1p6yQuxKPvA9DXoKWhPKal9IjZDSbUrNuLcTw5tm3sKilsZLzHzfL9a2/D+nxae25pVPqM1wVqysdMYXOUTw3HrkjRX8OV/vUl98FdMuoAbRzHLjgetenLcWUmEUIzYpfLVeE4HtXmOtJst0jxyz+E2pabcBiW2YONtZHgdn8M+P7/AO1uI2bIK9ySBivojT58sY3GRg49a+c9asTe/ErWF3Y2SLg9/u1tTqX0ZjKFjsdUvnuJ2cHqeBVeOESZ3Dr1qikklsw8zLdq1LWTzG4Fa8wcoLap5i/J7VeXTzJjEQFT2enyXUi8Y/Cuw03R0baXXIqXUsChc8u8T+HnvLVoRFvLeteZeJvgreNpcs0UnlzsPlULk19XS6Tak/6sU+LTrFm+eMHFNYixMsKpI+DbbwXrFjOAFkSZDjgEGt6x17WPD95FOBMzw/wnJzX19qngvStSkaRIEikPVlHWuRuPhlGl42xVZD7CtI17nK8Hynht/wDFvVNWgMNxEYoSckYxU/hPUH1K+WBVeQPzwM17a/wL0K8haS7jVWbqQP8A69bXhvwJonhZlNnGr7Rhdw/WtfbqMRU8G5M4bSvBmrQzldmyBwDuJr2n4W+I7P4aGS4+ym4uzyvzYANY80x8zAHHpVa8uYoEBfAb0rz/AG8mz144Gla0jstb+OHijUrySVbjyYWOVjwDik8M/HHXNK1VJb1/tdt3jxjNeZXWrGRsAd8cVLb3BjGWXOa1jWne5r9QoW5bbn2H4J+IGnfEiCUWkYt7yIbnhJyT/nmuieLycqQQfevkLwX4suPDesRXdq7QMWAJXpjNfYMV4ms6Pa6hGQfOQM2OecCvZo1ebQ+DzLL3hZcy2KEq4NRg9amdS1Q7efSu08iPkJsHpzTdvUUpypp3vQWNESrzTGTdTyaD8vvQA0LhcE0xh6VJuBHIxTDUsYeYVO2mt1JPWnNgMPWms2e1AhnzM3FDMy9ad93nvQWz1FIBqMGPvT5MqOmai8vDZHFSsx28mgCNc9TRSht1FMDC3bulOXC470mzaOKTafWkA/ODmmy5btSMcrxxToyduDQBHtK45pyt680SNkijb3zQAn3cmmk96l6rxTZMdKAG/epcHFJ+NKXxx1oAUU0jmpFw3tSMozQBGcVH1NTbd1N8s59qAIt21qkVvXimiMlqV49pzVAL97tUkA+elTBX3p8UZZshcmgLnk3x48P3eraefsloWXbtZkXJx618bfFzw9Dp/hFpXGJ7clgI+vphq/Sy7tBeadPbuqqJEKhmX7tfH37Q37PWrQeHNSm0+KS4tpMvLIvIx14rGR005Wep8vfBuZY7W83/ACu2CAfXmu7y5Y5G3mvJvAFxJDqkaAGNVdkOepwcV7DdsN3K4JrE9ujqV2x3OBSGaKMHB5p8dqJc7jgVn6msduhC800dFjm/Ed0+oXPkk4jHvUWg6ettdBuuOlTXFpLM28CksorhJuEwPWtotCsdlbyng44rSVY5lAcDFY9pceXajfw1W7e6VjgkU2Fi4sMAY4UY7Uqaes0m4JgU2NlVuTkVb/tKK3h6VztmsQhsU53CorqCK3G7im/2xFJkA7fqax77Ui0pUNuFJSNNCxcXm1cA4FY95fIysCahupppshBxVRtPkaPk81dyHaxTkmfLYOBUf2oyDaTWj/ZZmXGcVBDoMzXChRkZ5pKVmYctzG/4RnfJ5/Jz2JrjLrEnxMsbBsKqtuP4EV6/deXpyjzDhVBJP4V5v4f0ODxt8S21E7haWpI8xTjntW0q75bExpc0ke9W8yNIsRGQo4rtNJuBHZgE5IrhtPw145PI6Cut01N4AzxXzlVXbZ9Xho2R3fhmL+0p441ODkc13+tZ0zT1QHkYzXI/DXTXmvEkYfu1NdZ4yUteLGf9UR+Fcex6BiR3eW3A18/ftX+F2kbSvEFuCcOEmf0UA9/xr3maERcJWJ448Knxl4I1TTgnmO0Z8sejetaU5crM6tPngfLngnSB/wAJJp2oSyB4V54+gFfQ8lzFqSLjBXGK+efArSR3jWVwpjntpGj2HrgGvbdBgkmZPLOEHWu91NDxFR5GR6h4SS5Dtt5bvXnGt+DpLW4YopxmvechQAw5xVW50m2uMllUk+1Y+0D2aZ8+SaDdzLtjBT3IotdJvoTsMgOPSvcZPCEFxE6gbCe4rAbwIIZCN/BPGOtaKsL2LPOIIZrWTn5mrVt7pjERyT3FdJdeBZ7eXevzIaVPCr+Wdind9Kp1bj5GckmqCK4UMrk5rdXVi6qqAir1v4EuZWLGIt+FXLXwBfyTfLEVHvUe1j1GqbKFhbyahcogfyw3BzXoOn+E7WzWOOC53sRk5auch+H+sQtvVwmD3FdZpPhu6t41aeU+Z7UpVtPdLjT11NBfB5ZQfPwPrWdqXg27kz9mnAYe5rorOJ4eCzH/AHqv26sGJ7VxXb3OlLQ8/svDOtWtxvGWI9K04tSksZCl1kOOtd1DOLbk9O5rmvFEdpdM0gHzHuKaHYZHrUMdrPcK+0ohx+RrxHwLjxD4l1G+lc+YW+b8uP5V0/ivWU0fSblgxyV+7VP4W6In9hS6kFZWumzt78ZH+frWqfKZuNzdj01Jpct8wFdTpnh+2vFVoowGA5PrTdG0hJRg/jxXUaXDHp+VC0uZlKCSKEOi/ZeoFXoVEfSrFw4k5qBBS1FYkK7hUDjafSp921uaZJhsmgZVaTap/nVVZtzE55q40QkyM4qp5AQ4FUjORLzIm0k4pvkxxKAoOalhwcA9akupobaHLEbqbLprUxr6+SzYs3Ncteav/aE5x/CeKua5qEEzuG+72Ncxbr5kxKHaualHdGL6mlcX9npcL3F04VQOOeprBj+KemN8rKwAOM4qh44019QhB3HavYHivPLzSVjTO3gmtDtpxuz3rTtbTWLIPatmPrlTzX1P+zj4zfWdKvNKnfd9mwFZ+/Br89PBOuXel6kkMbsYmONpPFfUX7O/i1dJ8fW0ZDyJOCGjB4z64rpoTcZHlZphYyot2PrmRBGzZHNVJGBq/qx2XTD8azm5r6BbH5TJcsrIa2MUKcrSAA9aQMBxTATuKCexobO30pu3K5zzQMUrupGUAULn1pG64pMWoFf3gxSSEUv3fc0xlLHJFIY1X6ilVjuwaDGe1KFAx60gEYjNLu3cUFN1NYbOKABV25opwbgUUwMINjrS5yaMikUck0gF4PFLtGMUmPwpC3BoARlWkkUKuaMZpGXd34oAVc+XkdKT7zA9aexBj2jio14oAc2NvpTaeyqRTljO3PagCNWxmjdzS5DNjpTmQcUAG4N2pAfmwBSAfNgUZ2sQetACc+YB2qRl9aZuP40jKV69aAARu0igcD17VxfxQ+Pfh74V2ZhllSfUR0jXk1vePPES+EfBeo6g4y6x/u/r/k1+eeqahceMNUu9V1FjJLI5xuOQBntWM6nKjuw+H9tK/Q+mtD/be0yS+AvbYpAzYY+n6V7xonxJ8I/EXwvcTWWowy2zxnzIJHAP0wTX5m6hp8LN8vy47gVH4W+16XrCCxuZIC5+bax5/WsPaNnrSwMOhd+JHh+y8O/E69fSo/LsBMXXByMk5NdRfXiXFvHOvUgcCm+ONLC6HJdv88qKCzHqeK53wdqB1rS9xOdhxS5jpp0uVWRsrMbgbRxUN5aFMA81oxWYVNwHParLQAQjf8xpcx08pjLYZUNjj0qO7ZYAFRMn2rfjtN49Fot9NijuC0gznpTU9Q5DnYbK7vF+XKZ6ZFTroV9E2WPArqrhUt0DDAwKoJqck52hfk781pzaC9mY3lyxMctmm/aJfu7C1bzWcbNuxzU6W6jGFGfpWEpByHJSWd3dSfKhQVMvhu7mwNxX3NdjDbop3Fc0XDZ46Cs+cHE5GTR5LDBkk31M1irIMnBNatzGJsr1qOGzLY3NVqTYuUzo9NKqTnj2qxHAFXCt81XJ41jXAJIrOhhka4JGdi8mi5NjmPH9wllosu5ts0nAz9KyPhros+l6JLM3Hntv6VnePtYTxZ4stdKsHEogYeZgjBrv44TY28NoqYVVA4+lK/QunHU1NHuGaRFPXFd9oK+a2M8CuD02E28iSY3V3Og3QjdSFzmvOq7s9+get+DL1beMQcq9b/ihjPZq2eVGK5rwrD9odZB+ddLqkZFsQ3IGK5GkegcxC7MoUnp3rU0m4FvOMng8H3qo2OwpY8A5zg1Az50+PHhab4e/ECHXrWLbYXpAO3ouAOv516B4JuEuLNZkZSjAHOfbNej+K/B2m/EXQpNM1FRu2/u5u6tXzPcLrPwe8RNpt6zT2Qf5JG6FfrXRTempw1qfVHt90pJBB7VWEzq4yDisbT/F1tJaxXAuVmVxkKGBx7GvQPDdnZ+KtOWS2BEkh2kbehqmckUc7Hq8duxEjYFWfOtpl8xWB+lautfB69RXnV2Yj+DFc5N4bvdNjIkVlYfw4qLGhoyahbzxbCAMVVzGv3VrIZZVjdirDb7VBa6ww42EmnygdXb3ohQ/L83akGsy27BsDGa50a8n3SMNVVtcCyYdWKn2quQfKd9HrSTR72+X2p8Gqw3LEB8muLjvhcRjZkD6Vas5GjYEcCo5WOx2H2hUx81adrtkQHORXIx3kKoXmuoo1Xk7mxWfq3xY0Tw/ZtL9o89142J838qlxZR2mqagsMLqinPuDXneta/bx7i06tg8gMOK47VvjtP4oJtNN0tkLnAk2tzVDQfhjrGrTNLf3skKyNuMYx0PahR5dxkWqTSePNbtbCxjY26P+9kXlSPrXu2l6Da6XYW1rEgEaKAAPpWd4V8LWPhW1EdtCqvj5m9T610MamSRTmq3QiZLeK3+4u2ldh+NOZc5qu+VaoQxPPy22nRyjPWolVdxJFKVCnIrREsleTJpNwIxVaaTy+SeKWGZZFJBqjJkiqNxzVO3LXE7gDIFTsGbOKl8PwZml3Dmgh7DWt3j9qy9cjWG2kmkbCKMmukv1EcZz2rhviBfNcaLLbQLukYEcVLOiktTy/xP4wGoXnkWQ/cqcbvWtvSdwsUZu4rh4NBvocZtpN5OPlU/nXqfh3w5cf2bEZVbIHRhihtWPSM7WNGlvNJaSI49a8sv2eF3hKZ2nmvou1sd9s0DLgMK8V8YaS+k6tKCMqzZziiMrmtN2Zy/hsZ1xDyFzX0V8GJILX4gabK0ohG7AJ7+1eHeGbFJtS3lcc4r2nwBYwr4w0pZx+781Tx65GK2pfEjPHa4eR92a3B++3jgNWV7V0essjQxFemz/CuflXkGvp47I/GZ/EyLpSHHanHmmuMU2Ia31pR0pFXOaNuKm4w70jDvTyPSmNnbzSASnDOD3FNHHBozzjtQAueM1EZCW6cU/AHvQVPbikAzYfWkKkvzUiDrk5obGaAGEYoqUrwKKpAc4vXNSr901Gq8e9O6UANzzSn5uBQw4zUo2hR60WAaBUbCnliD0obDUgG/LScHOOKVV5p+xevSmAztTvMO3Haoyx3YPSn54osBGVG7NOB/Kn/exSbKQDFPORQo8xsnigDbkYpvOeKQEjHDcdqbMzNg04LjrTZDtGT0oA4z47/vPhXqJI5UD+dfn412LW2LbsITjFfoV8XLX+0vhbrSA7SI85/GvzK8Ran5dlHEDyHPT2NcVbQ+mylKaaOo8vz49w71d0nTRDeRydGBrF8K+IraZY7eU/MfWuvtbYLOrDnnrXNex7VWnyGvqy/brRoH+ZGXBFedWlnN4H1yNWONPmbnsBmvSJl6fSqmp6Xba/a/ZrhAQf4qs5UWLhI7hUltJVlix1U8Go5FZlAK4rj7zRtV8IZbTZmurcHPk53YqKP4mXqsFu9NdMdTtxSbNUdzuZYwKcsLTkdqwLX4haPcKqzHyGPXJ/wrbi8UaEsa7b+PPuai+pVi2lg20iTLCmW9qitgDFT2fijR3Qj7bE59M0HUdLzuN5Gvtmr5g5R5jVaDjrimnWNFVOdQhB92qFvEGiW5+a/ix/vVDdx8pZXc2QBUNwrdO9Vbrx74ftY8pexs3TANc7e/FbSIZMsd/wBCKVw5Tom/d/wEk05bdsbnOwe9ee3XxkW4kZLHTZXbPDcEVhan4m8TeJFMaxtaxZzxwadw5T0zUtXsNK+a7uEjHbc2K8o8XfGeXUln0vRLWRQxMXnMuDn2xUUfgfUNQlSS/vGlXO4qxJrudB0DTNOtx5kETyjpkDNO7I5DH+FPwxg0uzXW9QuDNqcxLFeCF/8Ar13s8SyH5QC3rVRZvLVY4wEj7BelXbaZR7mlc1hFI0dNVIbfDAF66bw/GOSeDjiuZsVLSZPSt+1LQYYHArjqI9KjI9C8M6k9m6xluprvNSmElmo7kZNeWeFbj7VMpftXossm61U9RiuLU9BFBsAGq3O4nNTM28kZpmFXjNIq5a026zOFPFafiTwvoPjPR3stUsopJMfLcbfnU+xrIsUX7UrCta6kZVOMjjtQD95WPljx38Etb8DXE9zpM/2iyzkRhiWNY3hf4meLvCN1E0K4RfvQyA8j0xX0l4oN3c6bIIVbp35rwzUbXdcHzgpdTgmtoSUtzzpU3E9MsP26Gs4Uh1Lw07yRqF3RRccfU1na/wDtgeGNbkV10W8jYjLbogB/OvO/9FVtsttG6/7tQ3Vnpc0JX7HHn2QVtZEHQXn7T3hqWTI064WPuNoqn/w0h4SZWxp9yD/uD/GuaXQ9L4BsYzz/AHRVseEdHmXi0jBP+yKYyU/H3w1Ix2WNyXPTKD/Gqh+NhkLGDS1MWeMoSf51btvAujr8wtk3f7oq3H4VtoThIlHp8tVzIpGND8UdZ1Z2Sz09Yh2ypqXzvGut7o45Tag91JGK3bfRGtZN0ahPoK2rdLiDjeTnvUXLOATwN4juGIvtZkZc/MvmV1Oi+BdLikRrj/SWUdG5FbDWjyNlmJ+pqW1t/Ik+9mpA2tB0uxgu8WtlFEAP4VrprWOY3CgAgetZnh6HLCQV2lrassavtFZTYh0ce5Ru61OsYVeDzTCpDdKVZKEA9FZc96ryODJVjzG5HSqd4GWMsOtSIdLjZ6VHG25eTmq8SSSRbmzS7vKXjrWqIIL5zI20cAURqVX0qQYkOTTwm2mS9ERyTOq/KcVqeEV84zEnLcVmyR/LnFaXg9sXEoB4NBjIteJrdodNnmPCpn+VeHaX8RrK68Qf2dONrF8KTX0d4m0ttS8G6kV++iM34YNfnzqV0YfE14A5SVJCQ3fg4pM68L7zsfcPhfxH4bgxBdpBI5Hccg1r6u2nNCHtUVVxwBXyJ4J1S4/dPLO0jA/eY17jo+vTXFmiO+444NQ0ela25080gbgYFcB8UNKgWzW4ABfNdXb3TySBDz71H4l0VdR01ww3kDIFJKxpoeJeF1aPVgcfKxzivaPCnHizSjwB5qfj8wry/SNOkj1hVERAU4Ne1fDfRZdZ8caZbQqGdWDkEZ4HP9K6aN+ZGWMa+ryufYuoSFhFz/D/AEFUJDzitLVwvnhVGNox+grMdhuNfTLY/Gaj99kZPWo2+bk0+mHlTTGLuwvHWo93rT4x2oZcGoATcB0pD6npTsg0cH3oARRuOccUkgCmlY7VGOKaf3g96AHLgjikZeKRcrmnD3oAjUFTntTjhuacR27U3Zj6UAKW7UVHuNFMDEwOuaKbzzSc00A77qn1po9c0pB2+9DLhfemA7NMLfNSKxwadt4zUsBQSuSaN24dKc33aYuB1oAcFDdetDKAvBphY06Mbs0AN3FaVZDmmbm3kY4p2AoNIBJGpq8cmnKm489Kd5IHIqgImZmPoKdjzMA09V5xTlUDmgRX8RabDqXgvVLRxw8Z/ka/KH4haYLHxJe2yH93DJgV+tMgMmk369jE38jX5T/FVjH4w1cEEHzzxXFX2Ppcm0k7mF4NgE2uhSflAr1L7UbWSMDkfWvNfBqgasvGDjOa7i6uCky8Z5rkPpMQ09DspH8yFW9RTIwOopA4NjG2eop9uAkGT96qR5pE0JV/Mzn1BpJBbupEluj57kU1pCzYJ4qjdagUkKKMiplubQIbjwppFxkyRcMc9elULr4W+Hr5PllkiY9fnNa/mNJHk1PZqjkAmspHRGNzir34T2ti26zupHPTG4/41Y0z4PSXkW+8upI2J7Oen516TZ2sMWHI3H61oTX6fZyANo+tZczOj2aR5p/womwb5m1GUe28/wCNE3wR0ZQA1/IfX5zz+tdRqGpMqnax/OsgXEsvJY8+9VzMORGenw50PTF2pOWI/vZNL/YOjwnH2VZMetX3t/M5JJP1pfs4UjP86Lsfsyi9rarHi3tY4z/u5psNmzckKn4VoPAY5BjpVO8maJsdqqOu5lONivM2wcVX8tmywzmmeaZrpIx0PWukaGG2twNuTitDGxh2kzyZRjWjZykNg8YqrHHtmZgMVdhj8xuuKfQpI6LTm37eMVs7MAA1hWLHcqjtW3DPjIbk1xVD0aNjp9FxbQoyHHOa9p8H2EWpaHK8q7iF4rwbQ5iZREx+U17X4V1GSz0l41cBSK5bNHajl7xmjvJFHG04FKrFvrTrpvtF07HjmombZyKksu2cZWQEHvXc+H9Mg1JMS8GuEsLjcR611el69DpaYY5Y1LfQaO8sfCdkI3ieNGSQbSSM4r52/aA+EC+Hd2o6Qv7luWT39a9rtfiCDKiqny9DXLfFTXo9ajWEEMm3kURdmZyi2/I+SrX/AEiHEi/MOKgkVUbGMVs3FuIdWnRRxuJrG1tWik+UcV3R2PNluSW6q7YB5rQtkPTuK5iO8+zyD5sH61rWWrBXG7mhjT6G7GnTmtOzj3MARk1lxfvMOp4rY01wzjPUVmaxRpfYRt6Zp0Vk1T28o3basbyvQUGjK8OmmZyoGDUE+kTLJtrdsx0bHNXfszSYbFJmZX0WFrdUU13FlcBoQtZOn6aix7iOelaSxrDjmspbgTP1PaovL2sDmnCfcQtOaNmPWqQhOM0yZFA55qX5VHJyagnYMKaIbIw6opA6Vmz5MhxzVuRfmqFx81WSQJnHSpFkJOKXjFIrBW6UEtj3fjFXfCjBdRKdiOaoSNjmr2gR/wCmB+lBkz1PR7VJoZYSQYpEIYGvz6+MXheDT/ipqi2jlY2Ykx4wBlj0r7st9TfT4DIHwa+UPj/o80fi46mhzFMOcY69aDqwrtI47wzCAoj6Kor0DQ9YaFRF1xXltjNLDKGyVBrq9K1L98hHJqT2T1/RNSVpFLDFdRJIHjyBlSK898N3AvJEHSvRGjMdoh7YpEM5yPToFuXkVMMCTXtP7M3htm1i715+Vtl2j/gQNeSswQM2MV9G/s86e1j4Hu7kj5J2G044OM114WPNUR4WbVnTw7segTsZpmc9+T+dVJF5JFSo7d+aZIxToK+jPy7fUr80gBpxYHmgGpLQ1M5JpWY7qOlNzSKHBfenHjpTc8dKaWNACsu4UsagA0mePWlCk9eKADvRjvSM2DRu7mgB1RnO7BNOMgzxxTOrZ60AO2LRSNjvRVAYXHUUi9aaE64NI2Y1zTAkk+UUwNu5NIJAy4PWn+WNnWpAZj8KejCmr0waOFpAPZgelRrzTsil28UAI2FWiN9tHl7hkmkVQTxQA1n+anbc8npQyc0NlVx2oAXtxTAzdM8Uq428U7tmqQh25VWmx9+9GFbtSbtmcDmkMv6bGJvPiP8AFG3H4V+YH7QltHZ/FbWYwmwLL92v080m4WO6BbjIIP418CftqeD4PD/xHkvkGVuzkOBx1ArmrRuj28qqqNVxZ434VWKa8EijBAxXSXkJkkAHHNY3heyESeaBya22dmbngiuA+mqS1Omt49tigJzxSwyFkwag09y1qu45qeMhcntVI5N2RTsqocjnoOaqQWqmTc3Wpr0AsHB49KjRi2GzzUvc2WhZkKquMYqOOM5JFPjxMORTSxjkwOlZyOmmy9a3EiqcniknuDJGQOBVBpGHAPFWU+5isjrRVkUSRkEVDDDtBxV3yyykAZpuzyo+eDSKIenBoGGqxGodc4zSLGPpTCREwA5zgVg6tJukIB49a0tWult1Cg81juwk+91rSJzVGO8PxrNM5Y/MOlbkqmT8BWNpMYjlfZxmtdGZBhuTWhhcrs21sGnw/eyKnaMD5jSxqpBwOaZcWaNrcGNQ1acN9HJjPWudgcxsQeRU8cjbwR92uaUTqhNo7KxnEbB16dzXZaTrksUOEkLKRjGa87sNQjERHQd63dDvwvzbv3eaxcTpVQ7BNQl+8efWpF1AM2Caw5NatxwJOtZ95dSLl434pKkae0OyW6CsCrYpby+Ece4uM+5rx/xF43On/uUlZp++D0ridQ8b61O+RMwTPrR7In23KfQDeKWjziQf8BpkviJLqE725968L0fxfdOuyUF2zw2a6uzubi6j3cgGq9lqTKu2L4gkih1Rnj5UjrWNqhjuIwQcmtG+jaTIxWUbJm3e1a2scmr1OQ8QQ7QjK20g1X0XXAr+Rccc8E10uoWUUq/vB0rjdasvMmLRDYVosGu56DY6h5KgBtyY4rWsdZRpQAcGvN/DuqNHiGRst05rsrfZEok4zWUo2OiMjuNP1BRINx61sxsJG65Brz2HUBuHP0rqNO1D9yDu5xUF3OrtWC8d62LSYMgHpXDWurFZwWOVzW/Dq6yKFjHNJmbZ1lrMA2Acg1ZmkC4NYenyGNgWPWrlxeLIwANSyeYvx3ChhU0khZcqazIxkir8bhY8YzUCuxw+ZeTzUL/WpQ3Wm7Sxz2qhEciHbmqcj7WwetX5jtXNU2UO2SK0Aj3d6GwRmnSRDaOcVHjK0ASRR+YeelX9Pfy7hQKz43296safIVugeooMToLydnhwTgCvDfjRC+oKoiGdo4r2q8kDRY6gjmuQ8WaFBdaLLwDJjgnrSbsddDRny8bPUYchxx9K1dLhul8t1B6810+oabNCxikjPoDir2h2K/Knl/N24qJPqeypJo3fCcrs6ZUrjAr1Ce6/0WNT/drlvC3h+6e7QvAVjAznFdPqqrGVTvUXuZyab0Kb4VQTg5PQ19XfDOM2vwz0uEqEO0lgP9418r2Nk+qala2cYJaRwOK+v9P0/wDsXQLOwPHlIOPrg16mBi3K58ln1RRpqA0navFRMS3vUjHcOBUYODivePgSLaTxilwV4p5bafWmqdxJpDGs1Kq/LSuu6o+VpAObNP2grTN3FGTSAVWKk09myvvUW7DUvO4elAB25pe1DdKQA0AIyrtyetIpGOKNuTRsC1QDGyelFS4FFMDnjIMUB88daYeelCrzQAv3TxRk7val8s5zTmIC8dalgIy46GlVd1MXPen9KYCeXsY96XeO9JzTHBU0APLbqaPlbgUobK01m9OtSAHlueKdJ2FNVgxAPWnNgNQAKOKaQSTT2Pygimbs9+aZPUMmPOOtJuLNz1pR8zdabINrdaAY5c7sr1FeH/tf/DaPx94DTU4AEutNAJ2jlhnJr21PvVleOtJfXPh9rVsib38h2H02moqfC0a0JunUUkfm14dkJswRwR2NOnuz8x6e+asaLZ/Z2vYGyGhYjn2rB1NnzIY+VHpXkn3kWnFM7fw/M15Y7uy1rWqiZTngVzHw71A3FncREYK111knmqy4x1po55aPQypoS0jYPy01FZW56VLNGYZmGDikmVtgI6UMtPoPVwoGO9RSNk56mlcgIKj/AIeKzZ1UyVVDKCTzVhGfjjiqWCauw3AKhSOlZs7ETw7t1JMAykUv2xY14FNSQSKWxSNEyKEdVWlmYW8JY9qjuJls0LjlqyNQ1Zntyc4NEVcTaS1M7VLxJ5utRQESNntWbJunkyT3q5DthwC3FbpWPPnK7L8TeS24GpJtTPllweV96zZLldpAaqcT/vCCeKpIyuXV8RStJlm2qPWtrS9UhlYM7rj/AHq4XWo3aPERwfas3T7O7Rw4lYHuDVWDmPYZLq3KblpsOoIUIxiuRsNWe1hxL83vWjZXi3nKuM+hqLIuNQ6aNh5ed20VpWmpBISiHg1zSgtHjzQv41p2VnIY8luOuamx0Rnc14Zh5gLngc0a9r7/AGcW9r95hyay5pBbry2arpdLNzj86LDcmY9xpxWUyTHc555qndx5XG3AFdHPGtxz1qCOwWWYKw4osho5zTfM+0LGEwM8GvX9F08Jpi7l+YjNc9o/h6K81KNFAVVOelegyW6qvlR4UAYqJDkcVdWL+c2emaq/ZfwzXZNpyqG3/MTWDd6a63GBkLTC5x2q2rwBm25FczJbi8V2K7CtekXVruyjLxXPanpaxs2xdvHSgTZ5leQPaXBkjJVga6Hw/wCIWmjEUxy3TFQalpLszBxg9q4/Upp9F1BZSPlU80ONxxkeuxt8ocDHtWnp1zIrDnK1xmi+I476wWYEHA5Ga6PTtR8yFWA4Nc7iac1zrYJEbHOK2baTy1VhXL2sxbbxiuht3PlgYzWbGdFb3DzFfnxWlGw4ya5qKSSP5l4FaNrqW4Yesxcp0lvOO7fSrivlcg5rmY2M8gCtgGtqFfs8YDHPFFhbF9JKnjYNWfHMJCADWlbx+WvNMVyK4w0fHFVVUd+auyLnI7VVZSG46VRRBJkfSmM3YVPNgLiq24HAoQmyaOMbc0K/kTCmrnpQVHmDNMgn1bUmsrbfjOR1rL0W5l1i8VZd0kWeVWujOlpqVoEc4XrW94J0Gx0mR3YhnYfxdqmWx6FFaGXqngaxeATTWw2L09apRaDpFvbl4oVUjpXe+JprY2DYlQ8fdBrzO8u/LBCHIzms9Dc1Le8S1tW6A1ylxcyX107JyAazdS1We4m8uIseecVqaey21mWcYY+1O3YtOyuz0T4D+HH1/wAarcu37uzw23v3r6R1W4a5ugDk7eAfpXnHwH8HnSdCbXH3R3V1xtIxwP8A9deiSMN5Yj5utfQYWm6cLn51nGK+sVuVdCF18tahapZpAw681GvNd1z54aPcZpwx2pCe1NX5WzTAc2fpTD3p27dTWB60gBV460DrilX7opOhzSANvrSjgetANGecUAJzu6U9uRSU3dg0ALimOwXqaeRmkWMd+aYDVZTRQUx0opgc7tINSbc+1M3Gl3cdaQC5PShl4prZGDTlbj1oAYMjvUi89aa1N37WwaYErdOKYcsOlG7sKOQKYDQMHFOPy9qYc5zRv9aVgDac5xTt2B6mmCQ5pWy3IoJYx9ytntSthVz3pSCeKVlUrg0AMVuM0/Akxk4pi98UqtzSAk8srzjIq7byItndrIu5GhYFfXg1VWbIx1q3aFHWaMjJdCoH1BFRLYcdGmfnD4tto7fx94mihGyM3D7R2HSvM7zfbzzQnkEnk17T8bfDLeGfiRqEe7YLpmfn1NePanDJaTSxXC5JOQ1eXLRn29CXPSTN34YrvN4Mfj+Nd1Zgxlia87+HNw8OoSQKcB69LYBDtzU31KkV7jDKTjNZVzMY1IxWrIwVSKo3cY25qmTfUpqS6g1KcBQD1qLzPLOBUuCy5NZnXCQfdPtT1kAPAqHcenekXO6s2dikWV5PJ4pzuFiOOCOlVwrGm3DGGEmkVzIo6helYSCMmuQ1DVXkYwrkH1qfXvEeAYkXMmcVi2m+Rtz8kmrirHNUqdEXtNunjYrJ83vVh5hI2M4qusZVsgZp9pGZpGCjmtupyczJVUDjrT1T5uKdHbtGSSajWQ7iBzV2sIka33NvPT0oZUPOMYp6k7cHrSrFuGKBi2zKzYYfLUslqscgeIlc+lRLA8ZyKsRh3Xkd6mSGLbmRmwXOK1IdQvIYjH5hI7VVtYjg/Lg5p8iSB8jpUG8SxHcSupLsTVyyXceTxVBAyrVm3jeSRQDig1Ne3tzjjkVrWticg7ck1FZWpTYD0PWuktZEgUZUHik9ika3h2ztraPeVHm4q5dABtwqhpbG4uC33VrVuFBXHasuozNuJ92AhwaiXHVhk1PNGFbOOKgzuyQKoRSvrcTchcGsXUNL3LvAyQOldErbmIbpWdefuy2DgVYjiLvSzdE5Xp7VyniXwst3bvx8wr0iSQ8/L8tZF0nn5XGFobM7nh+k+foOpMkjHyM/dr2LQ0jutNWSMds1yHj7R44o1khTJzyRVr4e65z9gbIdeeTxUSV0aJ2PRtNXzCvGCK6C1UswHYViaTIHugo7eldJaxDz65JF8xaTG3BojRhIOOKvJaBsHpVhVWMYAqC7jrGEswrYcfLye1VtPjDLVwqCcd6nUm5DDL5MgNa9vcmUjPSs2Gxaadc/drUKLGwAqhEszfL6Cqy5dqezDoTT41207DZFJblkyeKoSQ+WxxWx5o27TVK5UMx20ySFMFRUVxJ5eCKk2lV6VDcLuWgFudHpbH7ErZ6ipmmkVeCRVfSplj05A3Wl/tKIvtPFZNnqUtjKvriVZGBLEGqS6fLdZJO0GukaK3uee9UrpvKJwMbajfY0M6HSobNQMAt3Yir/AIM8OyeLvFlnYxpug3Ay4HRf8isTUNYYsYowZJWOAq9a+ivgr4E/4RjQk1W8TbqN0m8DHRT0ruw9FzkeTmOMhhqTjfVnop2WEEFpFwkKBB2HAxVaVznPanO28sx6mm8MuD0r6FLlVj8ylJzd2RFg3PWm7sUvyq2KTI7UwGhiWpaViMdKTHy0ANMgU8il3Z+lBUEc0qqAtUAmfSj1zTgB60hWpATI+lHU0pUGkxzQAvPU801l5xTmPYUiv68UACybTg80NkHIpHUHnqaUMeM0ANMlFI2GbpRTAwOA2MUEA80hVt2TS9Fx1pCuL169KGTbyDxSKe1P68flQMi5ppHz8ipW+UYoU0wF8vjOaTpQwxyDTd26i4mDDPSoVba3zVKG7U1lXIpjDhjkUhzxjrT1wDSMB60gG7j3NJjNBx06mnLhRzTQrEbNtbFPwMA0cMc0qsB9KTAAwUjinQzmO6Xb6gfrTW+bkUxRh8kdKljPl79tDQLyPXtK1gIpsmjERYAZ3ZP+FfPl5ZxXqqXAK469a+3f2mfCa+KPhjczQx+fPagyqFGSCBXxFo8w+x/Z5gfOTgg9RXn1I2Z9NgajlTsU9H09dL1pHjrtmnMj8GsLTbdftW9hmtdlXzCQawsd7uxzIS1VrhWbrwBUxkIbGajkYN15FPoSVAqqcHk1KP8AV8daSZEZcjjFQqx7GoZvTdwJP40u7Zg0Km7PrT1hJ4IrM6oyFWYHtUN/MsNnJK+NqjvWgbMQw7q5DxxqQtdLkiJ+ZuKaWpd7o4yaRdQ1JnjGEz2rYt4Y404GWqn4WsVa3y/O410U1msPKDitTmkUI0bJwKntlW3Y4GCe9SRyc4Ip/kiQ1cTJg0DNyOQaj+ymE7gKtB2ThTxSNvm4rRjRRX57gA9KstGA2BwKsxWar1GT60skBUZxSGQhQtWLXaWw3IqsDu4xmrUShcY61MmVHc0N0eRjggVIV8xeagjhDDcetSOTtwKhnSlcWHYJNp6Vp6baxzSFhxiq2l2bXG4lcnHFW7VXtZsBflqHc15TctYpJrhVUfIOM1vpZnABWsmzvLS3hJMoV+vWpG8aWVvhZZA2PelqNRZ0dqvkrhRzWmqmSLOPm9K8xv8A4oW1q7eWMrWNN8UpZpiYZ9g9+lTysrlZ6+sZkY7l4p6WKbjuIUe9eDXfxn1S3uCiHcFP51HN8Y57yQfa5DbpjkCnZkS909vuLMZYryPUVk6pZH7MzAcivNrP44W0UsNvF++Un53b+EetdX/wnFlqEOY5Vde/NU79DNy7DWY/ZzkdKzh8zYx+NQ3Xi6yZWiVWLfSqS6g0jZTpSJE1vR47uHY31FebLbzeHvE0bZIj3evWvT7iYyL15rmfE2mrMiT4w6nNCYHbaFdESJLjhsV3dnt3Kw5zXlnhW5kkjjzyor0exvo1jVS3Ncs9zWKOojXKrgcUFeaZZy7o1Gc1bjUFjnrWJp0JrXMairMeGbk81UkmCLx1qxatuwTTuTY0rV/LIzUp+ZsiqkTfNmrWTjihBYbIrZpVY07dwfWnRx7myelUU1oQyNtqNZF3Yzmpr7DICvaqC9aCCwzcniod26UDtUsfpSHAkBHWkw6o0SpW2wvpWeFLNgjmtSHHliq10yRtxisZbnq0rWGxyGDBFFw73O1IkMkjnA2jOTUEkw2nvXp3wH0UXGvG4u7ZpYFBKMy8Z9a2w8PaSsZYzELDUHUZqfCT4OrobDXtaCz3LD91C6ghe+a9TuLgyNtA2oOijoBVy+kMk7YwF/ujpVOSPa1fS06aprQ/KcTiJ4mfM2R7t1KxwMUMKQ/NWxglYZgUmPwp3Qilb16VJQ0LnvQwPGKN233pw5WgCEtg4zzTlXcOaWNAzEmpFYdKYDfJ+XrUaqVYg9Kl5VueaYz80iWHc0c56UFT1pT060DQ0/eFEijinL70bsNQMaO2aGAxnPNPZR9KjZPfigADYHTmim+Xnp0opXAw3yw4pFHHNN3MDwOKdupgN9aXdj8KRe5pNu8GgA37z1p33aRY1jA5yad97qKAGBuozTlUCk2hTzTu/FADJFw3FMaPcOtSs3tUYb5vSmgGhdtN++1StimnpxTAD6U3Zn6UvPeg7v4aQCMpXtTdtSeYduDSBDjNAriq21cYpmSxPanDqKSQFeRTsIdDZLeLNaSrvhuEMbBugzxX58/FbwtP8P8A4l6lYXEZiWSRpYyRgFSxwPyr9CLWd45FYdq8m/ak+EK/EDwmus2qK2q24zuA+YgDj+f6Vz1Y3Vz0cHiPYys9mfH9rMNwOeta2OjAcVylnFc2t01ldKYp4zhlbr9a6i3k2xop5rz3ufRXvqhsjAPzUUjcjFT3DLxgc1RkY7sUAtwnPyYFQLlfc1NIyiPLcVVZyzZH3aiSOmJdhwcHvV1QABxWfC3StKNtyjFZs0RaKeZGAemK8u+JUW66RF6Zya9SVT5ZNee+LrM3l027pmhGl9ChoEarart9K2VbzBjFVdA00QxlRzWn5YhY5rS5myk1uA1O+y5XjtTJ7tVkOegrMufijoWk6gNPnjcSMpPnE/KD6VpHUyZoxxNn1rQW32qCpHvXkur/ABZ+wXc0phY2wPykdDWTJ8cHvF2WwZXJ6Gt1FshzS0Pc1tg65LjP1qGa5tYUIkcZ9K8l8LeMr6+1BYbuUxrIcjJ7V2t1Y+cAVl3ZOc1DjYSqI1ptRtY/uMM1Db6lF52S3HtVO08I3l9C0kI3Adar2+ltHIQ6kMpwaxfmdEJReh1tvrVqygP8n1qb+1LBT/r0/OsaPwjc61FviUpGB97FQp8M7iRmDTnjtmkdSnTjo2b/APwlcOnxt5Dq5PHBrHm8c3DFlC4NYN74duNHnaMFvxNdp8PPh6/iC4drmNvJCZ49aDb2tKKucnNqN9qDkpv3NUltpt5cSKsjMNx717qnwuazjY29urbRgcc1yF/4buo9SEJTYS3TFMlYunLYqaV8MYtXhH71iwGTim+IvhvZeH7VC5LFuhr3Pwb4Rj02yQnlpFwc1yvxq0X7DptpIp3Mz4x+FI43im52Wx4HqnhdFjDxDk9K4rWtNeazlEykMo6iveLrRYv+Efe4mcRuqZGPpXg3iDWJ4Y5xsaROVrTlFKtzs8vh1i9hu5raJ+QxUZNdXoup6tpG13n4bkjJrE0Pw6dS1hpn3Rozbq9G0fwW2raitvG7Sxnrg5ptpBG5N4X8RXN9cFZNz45ruYJLi4j3xLwK3vDXw1tdDhIWJizD7zcmteTS49Nj2qnHrXPKSua3ZyOn3rNIUk61b1WIXFuQemOKdNZD7UZEXAouIJZoyq9azbQtSfwtby28YTsa7mxsTgP1Nc54esX+yqW++K6/S0dQMnIrGWrN43Rv6XNtiAI5FasThu3NYluxVsVqK/loCOaxLuXHhDLz1qa1j28EVXtboN9+r6MrDigESBtowKnjye9Rxx5PJqcIB3p6F6Dd3rUythah2cUqk9DRchtjZsmMjqapqPnw1Xc/Niqs8LiTcOlMi5OqqtQspMi4pEk9afDlpDQyupd3EQ/hWFqGpCJWOc10EMZlRx/smub8H+Hx4/8AHEOhJN5e6QCQg4IGanl5tEdKqeyTlId4X0rVPHmsxadp8bFWb5pAOB+NfY3hHQf+EL8L2umsyyXCL87jvTtA8F6N8ONLisdKt1WZV+ecjLMfrU8sxlOW6+9e9hqKpq7Pg8zzKeKk4R2GuS3J60wsfrStJnrUe6vQueFG41t1N25PPFOV+abuy1SaoNvvSjB4NJu2+9OVhxSBiMv4Uq4201iTTo+ByaBIEUAH1pGOMCkLkE8UvDAetAxmfxoPIxT+MdKYzAd8UACsBwaG64FEgG0EU1eec4oAXoRmpGUFeDzTMZpcetAAoyCGpm08+lPyFNJuzRqAxcgkUUDJycUU7Ikwdw6CheMk0EAc96duBFIoaUIWm8qacZNy4pN4NABtL8CgqycUnmFelLvLdaCRNm7HNObC4GeaaTim9ec0yh9MdfQUBhTsimA1cHg0o+VsdqZIu3miI7jz0oJHNgnikVttI0gJIFN28ZpASbg3am7ttCimyA5pgKyg80fw+tC/d5pyr8p7UCFjNXLWYKxSRVeMjBVhkVn/AHamB+Xg81L1Ra7ny/8AtE/s/XGn3l34q0RGuvNbdLGnUemP1rwWxu2mYxsMSJ94elfo/azLIj29yomt3+VkboQa+PP2kfh/p/w38WRXmmKIrbUcu0I6Lg44NcdSFtT2sHiG3ySPMvMRo92arNIGYkCpbiFdq7OAwzUKqUAB6VyHrrccyLNHg4FVGhMOc1bEYHzVXkuCxxUM6Y7Dlxtq1azbiF6mqbKdvHHvT7F2STJOanoWjpreM+Xg1zfiXTVY9MZrpYZ/MhU1m61GZNp6gVKKOc02MQx7fSlu492T2xVqSEspCDBprQvHEN4piOS1W3kVTtzivIPFEP8AxOiWhxt6sRXvl5CsyHFch4q8PrfW7CGMeY3GcVvB2MmmeSa2yyaTIoVWBHtn+VcJpMAa4G0/PmvT7/wndaOrfaQxQ+1cPd6BcLfNc2SfIpz0rvhJM4pp7nbeEdNuXuEupOdpAx7Zr6Qi8N22paBa3EXySbORjFfL/gnxO7NLBOpVxxz6ivpL4e+MIrrwy1u6ZniGPr1qZ26E3VjtPCWkG2tPlG4Y5rA8YeD7mO7+0WceVYgkV6F4RCXGi+dGVznkZ5qxdRnyjg9e1cclqSpWehpeFfCdtY+G4AU+Z1y3savReD7eaTKqF71oaTKsmnxqGzx0rViZlwFGPwqUTJuWp5p8S/hxaxrDcW6bm6tt+ldx8NtBjsdDjV4lDN3x2xV/XLJri14znHpmtXweI1shHI4yOBTsK8mOWxWOQEDIH61xfjTw3F/aEd8Bhiw4HFem4gXOZFrjvixqVpY6GqRyK91uBCqajQ0pxlKVkjV0SNGs4vu9K84+NFxHD5EUxCqx+XPrg0eHfiElnahZ3bHZRXHfFBbzx5JbGy3bYm3Z6ZqOdJnesNM4zxprIj0YRxPuVlwa81h0W/16LbbWbSRk43FePzr2LS/h/ctJGb/DIvVCc5r0PSdDi8uO3tbZYYh6KKJYhJaHVRwjvdniXgv4HySTJJPFjzBtYZ+7mvVfDfwrtfCMpkjxI2eM16Avh1LFQYXB9eKa0LSZUtk1xuq5HY6ajojmprQtJyoxWJqlrDypXiurvreRcqOKyrvTw8JLnBqYt3MmtDzTUwsE5jC1Ha57ck1v67YxrG0mMtWZpduJMHuDWjbIRraTGI8A8E10trEI1DDpWZa2ok2ALtNdPBHHFGgI5xzUNmyIYWDt6VoRKWSomhXqvFWbJhtKnmpuIgjYmTFaturLg9qrLbjzMgVpRqeB2oJLMbhsYpVbbMKhbMfI4NI0p3D+dUUX8gniiRfl9DUNuwbvinzScZzQIqyyFW296VZChAfoaYzBpM96Lpg0eBwaCCK6bbINhqW2m2rzWemTOBnJq+qe1MtM1LCbaSBzu4NYvwRkGmfHSJ2OFebGfxNatgyqwJ7VkeC7iPS/ivZ3jjEfnAt7dTTh8SJxCcqbSPtbUJFuJmKNmsmSM+YeavLJDNDHNCcxyICKhmi7ivo4O6PzipHlm0ysFOcZp20L1pQu3PrTNzMTW5KVhnRiMUuPloK45p2DipYxAB6ZoxzTS1KGpgDNupyr8uKauAeacXABpCGMm7gGmgGMc81Jv4BprfNSGPXDLUZhXPPNO6DOaUUDGYAXFNpW7UvGKBAF70vBHSmjLcCm/MrYNAD8CkH3qUYowRmqQC9sUVG2TRSFYwvvdaNopcbaaTSGN20bR+NCtikLUAOVRTd3zEYpSfl96Z0PrQA5qF6UjN0pc7avoA3buNOAwaFNNJO6kJiswYU1Rto24pUNSIUrQq0n8XFKpINA7AflNN3FutPPzZJpnrTCwijk0Ume1BytFwsKRSKTnrRy1DKVpCJdpbbg4Oa+b/20LWc2ejXnkt9njG1mxxkt619HLIQox1qt4m8M6b8QvDNzoupxLJ5iEROwztbBxUyjzI2pVPZyufntBdCSFNoLcYzSNcjzBHtPPtXSeOvhfr3wj1Z7fU4GksGk2w3UakIRjjrXM/bBcSjIwO1ebKPKfT0Zqok0TyL8gFRtah+RUwZWwtT7AvTpXO9z0IFFoSVxTIYzG4GK0lRWWq0kYX5h1pFGxbtthGKdJtkj2uKzLeSRYhV2Pc23NAiGS1EJJAqtdEGM5HFaF8P3JPesCaV2UjPFBTKbY3HHAqWKxEg3leKrIu9yCcVp2v7qPDHIq0RczNY0W31LT3jZQT7156PCIgMqqF2jOc16qYy+QvQ1i3mkGEuSclua0jPlMmk2eSzeCUm82aBREy9wOtbPg+a50mOZHPFdXNA0cLRovBqglnIXCbQB9Kt1DT2KZ0XhP4lS6GzRbS8bc1q3/wAUJLth5YkXn+EVy1ppY3YMYB9a6nQvD9qzbpkzWUqhtDDw3Z3Gj/GCG2s4Ft7aSWQKA3mKetX7r49CywP7PkJPXCHFY2naJZq2VTaK04dMtV+/Akg9xWPtDrWGpSMLxB8fNX1eRE0+ya3hB+bKkE1saN4w1m/slmkJgJPRCelXG0+0ZcLaRL3GFpwtVVQFBVeu2s5VXax0wwtKPQsQ6xqtwwU3cm0+9W10OfWJEE7l/wDa71FZN82AMV0WmyJCylm5+tYczOrkgtkRf8IjZLAAsOWXv71QW1e3maKKAr74rtLfUrMNhyAPrU15qVi0Z8pV3djUmTscxa+HZ7oiRmCqPWt6VorG28tBg461S/tQ8qBtFQS3BmbB6VNmTcmhuJFbJbPtUg2ySbh1qGOMHnOatwqFpoybK93GNuSK5jUvmYpnArp7qTsTXNalCWmYiqM5WscN4mcwqUB4qhosqrgd60PFFjJM2RyKydJt2jyQfaqMDubORZI1GOa24YhsXdXMaHMJGAc428V08EisuAc4ocbj5ieRQqDvU1uoVAe9QQtuPzVdVflHaouO5LDJwcdant7n5uRUNugXjvUy2qs2d2KLiJ929jQ67etVngaOQEHIqXzDIwBp3GSW5+Y/pUs3EJNR/dxjrUVxLsXBOaW4dCGN9zH1qG8uNnynrUSzbWJAqrcSmaYcVYi7axFpg4NaDSYqtax4XJ4FTtjbnrRsOJIshVetYdnN5fiSKUfeD1pNNxgGsZSV1DfkjntRFu5t9l3Ps3wdcW+raLbzC4IdEA2Icjp0P5Vq3PrmvPPg7ZquhW9wkjZbO7nIr0WbBbjp719JR1ij82xOlZop5KmgGpJMc1EW54roMEO7ciojndgdKeHPQ0m0hietQ9xiKvrTu1GaTdQAh+770oTK+9J90e9PX5V56mkLqMZPSm7SvepTz7UjDavrQMaGBpwFRljuwKftKjNAAVx3qM9ak3HHNJ0oAbu29KcwLY9ab94045HTrQAbSq+9JyODxS/MvLHIoYh+aYDfxooKBqKQGDjC0zPFAYsDUee1AC5xSMxpxX5fek6daADbke9HXik29CKdnjpQAm3caGak8zavFCyB+vFO4BvIFA7GlZQelKvy0agNbJb0FPGMdOaQ00t+FIQ/ApN3zU3d6Ui0DHZ3ZPSk3DoOabu7Um3HNADuM07NRg5apCOOOasRFuLNwKmUgqc9ahGVJpd34UifUM7TgU7aVwR8r9j6VGuSxqTluDTCS0OV+Ovh9PFnwp1ATRLLNaBpYuOQVHFfBunxkLz8zqcEehr9IrixTVtGvrBwH86Jgin+8a+B/FPh+fwl4o1K1uYvLPnMQp+pPFcVePU9fAVGnY5wXWJtp45rRDblB7YrLmWOSbcKuKxVQAa85n00GWUxtIqJoyq0+H5V5pZj8tQXLyEjYhQM1cgcyH0rMjZlbPUVciZ1+YcUjO7LVwyuvlkZNYc6rG7A8VqNK3J6mse8hLMWPJNCHcpSMqsecVJGzyHC8CoJLdtwHrV+1wkeCK1TJHR5XGTzST/vGwadIm0ZBpjfMPemIptY44AzmnrpsakEjBqYAp7mjzMfeqWzWNydNNV03DArU0uJdwB7VkfaGhxj7tXYbhlQOp5rKTZ20zbeSRPu8AGpP7bSMqD+NZcmoPJAQvWqa7pPvCoaOlSZ1p1dRCHQ5qxBq6TR+rVzEI+QDPFWrePyVyDyazZqpHSWuoBZAf0q+1+hwQSDXH+Y27Kk7quR3Emwc81BfMdBJqCyDAJ3VYsJ5VYFmO2uftpGY5Yc1vW848oZpGbNjzN/cVYiJbCnrWPbq8kgxnFdBaqojGfvUCBEMbDNTeZtYc1FyzYNE0ZVcimZSIr5g0gANVJoVkVs9auQwmTk80k1uOaRhJnG6vpzRRscZDe1czDamNiAO9ej6qoNqVI7VxrKqSkAc5qlqZkEMDRsCD82a6OxVo4wzmsheMMBzWotxmEDpVEmhDc/NWlDcBsZrm97DBHWtK0uuAGqSkzWN0FB29apmafzlbcduelTRqH5xilcLuFHUps1mXdGCD94U2NNpzVa2vN3yk9Km87mmK+hIzfN1qldzeWSTVkuuck1S1DYy5J4pWHfQqNcdfSrFjGtxLlqzhtkbahrZ022Fuue5pkq7L0MI/ClmXYpFEMu3NNkYyZpGsYlCX5cmqAG+Q/Wr8jKxZe9JbwKzdQvHOaFudHke/fAW8mOhtbEgqrZ+avVLhCrc1438DIrtppmjG60xyfxr2i6IyK+lw/wH5tj4pV3YqMdy4xUX8Rp7Ntziovvc10nKh3GaUOVyMUirml24HWs3uMTOTSGMikHDU/JOaQCMuVBpy4K5zzTFbccZp6rtoEJ+NKT+NN289KOlAxFXb1pWJ29ab5nOKc3HWgBqt1zSnmkA3Uwsd30oAX7rU7rzTTk0HjigBxzjrTeT0pV6+1OLAUAMGe9FBbceKKAObVqT+LmncZ4GKawy3rQA8tTetL5ZI4pvsKAH5CrTeue1Ix4601Qc0ASKoAoZQw9Ka1NSTJxQA9VPekJ5p+73pAuWpgLt3LUcke7609spTdxzSAWNexFOZfSm7t1H4/hQBGw+anKT0oYj8aYZNvbNADz8tLu28U0/N7UNyMVRPUGXuDmko3fLikHamK+opyvGKVWKnJprNubrTh7ilcZYhvBassgPIr5p/a88OCO6stctYmaN/lkZR3AzzX0ayqcfWs7xn4PtvH3gfUNIlA8zYWjY9c1nNcyNqNR05pn5+eSnEin7wBxU8Tdj1pk9jLpGqXWnXSMksEjLz6ZOKSRWb5ozxXlSjZn1dKpzpNFiNiznPSllc9O1QxyHbg/eFSLIW68muc6ea4YCLnvUkd0V4ppX5aj2lm9KRLZb87nHWodQVY7ZnPWhPlcc0+8j86EriqRRgQ3LNJ81WmY5GDULReW2COc0qMelbpEXJXmZmAzwKnRgcVVbtSrKI/c0mhcxYkXvTHTctHmCQCl3jeBUWOmDG4yu0ipYcpwTxU32UyYIq2mmFowc81lI7IkUGHOA2KtMnlgZ6VGunFeQ2DUoXau1uTWDZ0IdDcQs6x55NX5YwuAOlZcdiGmVu4PFb5hUxqOpx1pF8t9SrbxhWJPNX41V8ECq8cBVuRmtGOMbR2qRktvZjg1fXEagDmqlvu3Y7VoRxZ69KQGjprJjNXWuEDAA4NYkWY246U+SRt24dqZDlodAzjCkdcVBPM7Yx0qppMzXG7casuduRSMJMdHcFBirkeJFyRWfgDk1ajuC0eBxTMWyDWLXdASK4m+08277/evQXBkhOeR3ri/EUm242r92mrkmaLgbdpq7EysorGMwdyF61ahaRcc1VgNDedxxViKQqy5rMEkm4VejuE2/N1p2EbsdwGVQDipi21fU1l28g2bgatLMWXOaVhlmD5WJJ61KZdpqsswC88mmNIetFhrcmlmJUmsu/uGkj2gmrdxNtjqtDH50oHbvSLkP0e1Ifd3NdDGccE4qK3tViUFRSsNzA0FRRbTaq8nNMaTKNimx4280zcVzjpQboy2k8u4IP8AOrErBY89vWpGso7iXceDSfYzdyrboMnIGPxojG8lYqUlGLbPpL4BRy23g+WR0wGJwcda7vfvPJrO8EW8eleDbS2QbW28/kKvtGUOexr6SknGOp+a4y06rY2TimD8qkPuKiWR9xBHHatrnMhQxpQxbrUir60z+LFSMawo37etHRuaGwxoAVFHUc0vmEHGKT7i4FKpB+tAgMgWkVtzU187ulFACsgZuOKVumDSL81DcUDFUVG33qd83ao2B65oAeTSHmmBqWgB6Y70jDBzmk2HIJpm75jxQA9X96KRY85NFAHOtmj09aXcMUvFADTmlwSKHzjgUnzbaAGmne2KY3y0R5NAhzUwn2wakXl6Ro/wpjFQZWkOVOaRWK8UbhnnrSAcW3YzSOvYUxs56U9SDyaAFChVyTzSLIM8UN19adkL1oAbuBPPWm7iG46UNhulMUfN60ASHO2haUfpUT5DcUyWSNhaYx3dKad2DSp93mgjqNKbacpNBOKcOlIsa33eBViwma3kB/hPBqIY/ClYjgDpQI+YP2sfhlB4e1K38SabETHcf64oeAQBz+prwW3uFLsc/LX6BeNPDNv448K3miXj7VkTMbY5yOeK+A/Emgv4L8WXmiXfmExPhGkXbketcdWGtz2cHWa91j1ZCuR1pYlZmyKgZfJUNjIxmo45mkztNcEj3E76mh5jbsGkZwGzVXzjGvPJp63Cv35pWGWFIZsinvuVScZqqku1s9qWa8k6L92mojuV3XzGJPWotoDEdDQzN5nJxUd2w8vrzWqESSSIgKjlqrx53ndUCHqc5NSRuZmx1NMVrsvKBjApsqtEwb1pY1ZV96m+aRRn6Vm9zqiaOmyAxgMeTWjG4UdOKw7e1lJGw963YIW8sK3WspHXDckEIkOVqOSDZlnU+1Wbe3aOQEnitpIomjAcA1zysdSOZjm3SYVSfwrVtfMx8yEV0em2dmi/6sE/StiHT7eZR8gFYORtFHKxruUZXH4U9mjjGO9dX/ZtvGMFaLbw/bXknyjnrTuIw4YN0CsBg08FguPSuputFWJDx0FYd5p7LGWXk0yGUGn8occ0z7UXPAyKbCNzFW65q7DsiGCuTQmZSCwuGjk4GAavzTFk44NMt1DAEDFSeXzin1MJDbVZZo2zyatQxNGp3NTUzD0qSOQN1prcgn8zbasTxXK6xYifLL1rpb5Q8AQcVi3y+WnNaEs5OezFrk5y1Nim2jceKuXTCRW3etZ0jR7cZq+UjmL8cgkxirf7uNcvWRZszMAvT1q/MpfAY5p2JUrsvQyeZH8nT61bs2ZeKy7GMxcc4rSj+TmpNC97ZpMbR1qNZl2+9M+1KxKd6kaHSL5vHanQxGPkUsXAzjinrIOBig0WppwXB8sA1MzDrWcpJA7VcT5lAxSZvEkDD1qXcoSqjgjoaikmCrgtkntUdTUkjmxKTj5frXY/B3w+/ijxtD8pNtA29zjjGa4e6cR2429f/rV9R/AHwenh3wedTkh23Vzx83Ur1B/WvUwVB1aqfQ8rMcR7Gi7bs7vUoVS4SGEDCqF+X2oNsyqN4wR2rkfi9qWraH4E1HWdFBOoWq7guOvNeNfs9/t1+F/G1w/h3xbJ/Z+uwv5ZZlwGOce1fRzoO2h8FJt6n0bIo59ahZFU5rYms4ri1jvLSUXFrKNyyKc/KehrMkjB59RXFblepKZGct0prLtqWND0pJFHNIortSKtOo7UwE2847UpAToKVTRJjHNImwnJ7Ui/e6cULnB29KXZgcnmqAdtHWmMPWk3FT14oY7qLDQM3FR/ePNP4HWkbtSYxOKOPrS8Y5prc4osA8+xpBt/GmMvTml2L25NIm4jN70UnNFLUo511+XilTO3J5pV+b6U5nCgelMBpk7Y4pN+B1okYMoxUXQc9aAJGXcM0xX2kA05elJ97r+FAh0xXIIpGkJwBSHGOaCNtV0GSJ79aZIO+OaaG/OpBk0gE3dAetBXpSSADnvSK24UwJcDbmmOwPAFKTxgUxeDUgKmTxQV+bpzSr8vSk3YYGgQqsfSmsQenWgyYzTd49KCbgvOeaO9KuGobC9KolPUQ8ijNMVvm56VMcMKRoN4NJjb70MnHBpD8uOaYWF+0LFIjEbipBFeJftUfCk+LNAPivTIc6ha48xYxnK9SfyFe0yRBuc1csYY7iOazuOYLhDG6npgjH9aicbouM3Fqx+b9jdLfacG+7IowV7j2pIxs+Za7f46fDmf4Z+OLpLaJk067YyxNj5eTgD8q4O1mbaVxn3rzZwsz6OhW5lYsuxkX3ojt1j+Y0RY79afITLwOKyZ1OQ1VDNwcilZ2xtAqKP5JcZqwG3VYyqysRkmq8kRcHmrsi7uByaiEe3k0DMyPeshG3IrQ03ashLDFDMN2Bip7eLnJXikVFl5Hik5C1WmvI48jHNXbdVjOAM5p02mrM24p71k7s6Isn8OzLOpdhjHatkyJyRWHAy2q4QYFTfbCVwOtZvY6YPU1oZt0m2tBZD0rG0WVp7jaRk1vLCfMHy1zyO6LNzSY1aHnrircbm3k+9gVUtFMaqBU+pQkIpU8kc1lY1uXY7hJuM5NTafI9teLyQtYNorwyhuRWsL4MwGcGr6CN3UbhW6HtWRDA0823dhT61DdXb7AFG41TWaaQYBKmpEw1Cxis7sqjBjnJxUCoZJsdqpStKtySzMxHrVu0uMuPWnY55NGrDAYlyTQpErdaLctOcE4p7WDQndu4NBzSZOsY8vJNQKp84UBjGpBbNRrIzHIOKqIi1dY2gd6zNWVfsue9WJboqpyM1QvLxZk2d62RLZytxNu3DpzWSMsxye9a2p7I8qOuazFHyk+9amLLdm/luOa01bzmGKw1xu61pWdyqcZ5pC6m7GY1jwetRCQtIBWe9w+75TSwzv5gB61DNjbMhjUc5pi/MwbHNVzIf4qsWnzNk9KkuJdj4UZqSDy/MGajOG6dKRU2Nkc1LNoxNIbeMDipNyrzms9ZfL5Jpnn7s4NSbJWLU0hPIOKhXDfM3rVWS8Krg0w3Hm7IYgzSucBVGea0p0nUdkOUlFXZ2/ws8HzfEjxvaaeiBreMiSYnsgIzX2Rcxiw+z6bbfJbWsYjHpxx/SvPP2b/h3ceB/CtxrGpRCK8uxmPI+YKQK7678142nwA0p6V9pgKCox1PhMxxHtqmmxVvoUvLe5sHRJFuY2Uhuh4r8Uf2kPBd98Ovjlq1qxezlMxe3kQ7eOtftHqkzW/lHOJBx+dfnV/wAFT/BY02TRfFFsM3RPzlfdh1r0JWR5C8zR/Yp/bkm8HamPB3jO8lvbK4cC3mmOQgIAAB/H9K/Rtks9YsYtR0uVbmzn+ZWTnANfgJY2S39rbTxMY7lcOGHUH2Nfbf7EH7ZF34O16Hwf4wui2mzERxyzMflyeOteTWim7oz6n6LeSI1I/i9Kikjx1Fa8sFvqFvHf2MyXFpMAyOnTnnGfxrLkJLEDpXGbFKSMbjTWjO0kVbmUGq7fLTGiBfrQ3Pelxls1KAu2gZCGI6U45albCmm7vQUyWhMUd6AfWnNj8aAGMtIMZxTslaaQOtMBW5ZRmkfCtgc0pUMvvSeXsGc80gBRuYDNK67Wpith/WnSnc3BpAIWFFG32zRQBzi8KajZg3FPVjjHSkC9zTsAbRtGKI4wx5o3Y6cU7dxSAa3HHam04sMc0uVwKYhfvKM0Mu6lK9KZmgQMnp1pFJVsd6ccdjzTSuGBoRQjsQ1KMNQy76QU2A5SM470mRupuCpyaTB6is7gSNkUxm9ajLNup4+ZeaokUYYUUfdFI3zCgVgoKkr1puCAaVWOMVSJsCkdKftx0pm3NIZCvFDKH7qbKC3PSmgn0pzdqRYu7oO9KWbIwcMOhppPShWpAZ3xC8D2PxS8G3WnXkSteKjG3kx8wbGAM1+f/iHRdR8B65daRqcbRyRsRGW/iXoK/RdZDBIrIcGvH/2nvhFH488Jy+IbKHOq2C78oOXAHTFY1I3R1Ua3s5anx/bq23f681KrNu61Ws5jCphuFMcycMGGDn/Ip7X8W/bnkV58o2PbVRTV0Sldsmakzt/Gq32pWkxVtV3KCelM2jIhYOrbgadnzhhuKlZTtyOlMTA+9QVcrND5c2eorSgnSWML0qjJhH3fw0vnIwATrQOLNJZkjYYPPpVpb4opJ4FZVvAjMH3c1YkUdzWb8jpjIVrnzNxWksmLTHdwKa00cMeFGTUcM2GyazOyMjespGtrgPH1rq4dQS6QMq/P3Ga46wuhvAHNacdyYZMoNprGUTqjI6VbmSNh83FajX0dwijPzViWYNxECx5pLqRbc/K3NRym9zceZI1wxGaq3EiqmV61jrO9xglqvLLGsfzntS5bsB1nrTg+URls8NT73VJI1wow1UYWgjuRIW4zTNWuUuGDwtkVfKQ2W7W8SRSZfv0yOYrdAj7uayx5mQwqeBpJJAvSq5Dlkzq451hUFiM1oxzLPCADzXHSiZSMtmtWyvGjhHOalwMbmlJGFOCaGj8uLIPNUG1Qtztolv2aHIoUbBzBPMFjJY1gT6iskjAcEdKdqV4/ksSawEkLHPfNapGTH326SQsTVfdtGKnkb+9VRnBk4NWIm2bjmpoVVTzyapSXBTipbdizgmkxGtbzLn0NW4Ruk3Vkq21ge9advIxjGRioNkWnkXdjPNXIJBHFwazDGWbmrSjy4whNSbRRpRt8uQetK8xXio41/cjHNQvJ83NQzaJK8rNjmo3uPJTrRIwVM9qxdSvxCpGcHtV04OTsXJ2Vy6bxJZFUnbk45r3/APZz+C8mra5FqOs2jta48yFjx05/wrI+AP7Pdx4iuI9d8Rw+Vpi4eONzy3HXFfW+lpb+GNHKWibLUYVOOR2r6bCYTlXN1Pmcwx32Isk16+T91psK7UX+IdqzXV/vSf6mMVDdRywo0xO6WTlafPKPsaQ5JlYfNXvxioxsfLXuYmpMt06yKTgnFfJ3/BRTSbbV/hc8s67vKII/M19ZzJuufLToozXyX/wUM1CPTfhaY5iu6VwACcdzUz2A/MrRZDHaLJGWwpxg+lbM15Heqlwh8m5iOVkHWsbR7YrZOR91iecVpWMKqpSTof1rzJGT3PvP9h39thtHEPgrxpciS1f5LaeQ8rzxyfwr9BbqO3u40ubJ1ktpAGRlORg81+A13Zy2sqXFpI0UiHcrKeRivvb9h39txY5LXwX42uisbfLBcSn68c/h3rCUOo+Y++ZYV28daz3j+bbXQS2sFzaR3lnKtxazAMkkfIwR7VmSQqOe/esbGhmSJ5f0oX5lyKnlXcKRUCLikMrMPf8ACmrwvPFSuuTmmD5hiqENIDd6Qtg0rKR0pj/NSAkPPvTdtAbaKUyZHApgNbj60j5YAZobJpvRs0gHKNvFNkY5FPNIMGpGEbjnPNFJsFFMRzdKp4OaKQ59KAF2556imN144pwbqKBQA3bxzS7hin4ytRhRuoJY/IVeuaQ4NIwPamkn0oAeo285pG6Zpv44pVcZwapFCK3XmhR70rbaRduc0MB7tkYNNVqU7abxUgIdpPpQrc0gXcTigrtoFYJGHSlC5XPWm7c8nk0+NvwqrAIFPcUnVqSR23e1CGkAMcN7U7Yrcg80jU5cKvHWgQwcHFK7Lt96Ru9NZeM4pAOj56in/d6CmL096kVhg+tUAh+Y1Nb3phYxyDdA3DIehFRKw78UrKr+lKxLZ8rftSfB1fDm/wAV6ZCDayndLHGPu+/514DbWtldW7TNJ+96gLX6TPptt4gsZtI1GFZ7WdSpVx0r8/8A4w+C4fhr8UNU0i2Rl07zMwbvT2/E/rXJUh1PQw1Z3szmET5vl/Cp45yEI96I5kXBXHSlYrIwK9K5T2Yu5ctW86Mj0pxUHjHNV7YmEnvUrMS3HFM0RI8K+XhqpeSsTEjgVb3FuCajltyyGguKG2d1FFJ14qe4k+0f6usyOFeSRyKdY3wFwE6DNRY1T1LzRFVwetV5IWKkhsVo3jLt+U8mswlgeTmo5TojOxpabdpCBv61t29wJjkYxXNwqpUdzWppZbfgD5aho6IzOkt7x4F4PFOluBIMk81S8wrxtpA26s+U6FUNG3ukjXBqnqNyzN8pOKgaT5cDmhcMp3HFNRB1NCaG4QRgMea0be3WWMMvSueuJEj6EH8amj1j7HCuX2q1aKJi6hvyMYU4GakhwMOODXOw65JIxG4MtWYr5253cVVjFyudF9oDYz1qSG6cDAXIrnjqHOAea0bLU1gjJlz0qbMi5rPcKseCvzVTmv44oyC2DXOah4gLTloycduap/aXvPmcmlYOZl++1EuCoORVRZwBzxTNvl9TxUUmJW+WgEK9wzMQDxTVjAfPWl2bMU1iecCgY+Rd2CelT2vMgGKigk8yI7hg1Nb7hJx0pMRcxtI7c1fhm8xc9O1Z7jjnmp7P7p4qTeJsQ7PL3d6eP3jDIyKqbgIc9Klhvgq4xzUs6EabzLFCFXrWZcTdT0P1oa4ds+9VJ9oUu7dKVn0He2rI7jUnh6n5fevVf2c/hCvxO8VLf6jHJ/ZNmfMkYj922M8ZrzT4f+C9U+LXjS20PTIyYt2Z5uqqnfmv0W8K+DNN+Fvg+DQ9MQNtA8xupZsAEmvdwmHu1Jni47GqEeWL1NxLCDEVlbbVsbdAuEPoKytS1JLrUEt4dotk4J7cetX76SLw/ao0Cki44K56VzN4v2FTBEoMk/zf5/Ovo6cep8lKTb1L91eRNcGYsPLhHSsb7SZvNvXGXbOxaWWMeQsLH3aq8KtIxkQZgjH4V0aECak09rZwvGwE8h+bPpivzs/4Kf8AjlbqztNGimEkocbgpyBzX6CeKtWg0vw7davdbmiVGVNh4Hb/AAr8ZP2pvFx8ZfF+S1aR2jtZGDKzZznGKwqPQDkNLJXSYIxxxzUykZG4ZPrTm8uOONF4GKeGRMDqa81ksvWP+kDb/COtNvLCNts1q5iu4juRkODn6061zGuVOCab5n2eQH160miGj7i/Yj/bdl8O3UPgbxtcZtWxFb3M7cDsBn8a/Qm6hivLaO8sXWW2mUOmw5yD6V+AeoS+cwkU+VMh+R04INfen7FH7cUulrZeDPHF3CLRVEdveSZzt6AFjWTiNXPvUrjOe1VrhTuyOlbUltBq1jHqWmypc2UoyrxnIrKcHowx61k1qWVuStM2lakkyrccik3buKBke6o5PUVLIu3FRyfdzQVYjVvWnHjpTVp7jC8UCG80UR9ck09sdqkQx13CgfKopf4hSsM0DI5CeMUU/pRQM5sc80bh0zUW4ngUmz1oJJQ23pSuTtqL5scUsYJzuoEKrY71Jt+XNR7QDTt+0YzQITdRuHSmjviigaBl70zmpaY3tVAxD81Jt96A3NBagEFJv5xS7c96MDgUhgsnNP3UzbzmkZu1IBVPzHPSmH73BpykEYPBpVAGc0wE3YoHrTdw3cU7duNIkfkNikb5QTS7eMikPNAyMNup8bYPNN27TSgg5qhDmb0pq5BpU+9inv8ALgUxCM3pTBmNsnpTl4OaWTMn0oAmjmHynPfrXzl+2R4J+1aTYa/aRAzR8SP9Tn+lfQ6L2Fcr8VvBkvjD4f6pbKctGjSBfYKaymro0pPlkfAcMa3VnFNHz689al8xIgFXrSaZavZrLZuNpiJXH0qC6jMEnXJNee0fR07NXL8MhXk81M/zKCOtZUdwxbHpV63m24J6UjVFhGyRnjFWY5FaTrxVKSXzDkcCnQuM+9SaRIbwGGY4GVNZ8iqCSvyn1rdaRJOGwapXkabvlGKZaiUVkl3D5s1Z87ZHk8mohHTJHwdppgWLe6I+Y9K2rLU4IVznGa51mWNcU5WEiYAqGi4yaOzi1aOQYXk9qsK26Mk8VyOnzNHIB0HrWlJcO/G/gVPKdKki+tz5bHPNLJqCuCB1rLhkDOAWzVG+uts5RTinYTloXrq4PODzUU10byFY2xhfSqS7iMs3FNTvtNXoYNlq1LpJtR+K2be6ZflPWufhjMcgOavwzHcCT0paFRN6B0jkDvUd9e+cCFORWTcXjSrtHFLa28m3JbNTcY+Nd2AfWtOFlVAuaorCI8kdab8zN6UikW5n+fk5FQeZ5cuR071KI9ygdTQ1uGGDxSsVYe0wdRiiNtvUVJHBHGop3U8dKQ7D9qlQRxSxTLG1QMeODSwwljmpYGj5gk5FWLddvJ4FUwQuBVsZaMAc1N0a9S6l1G0eymecnQDmoIbdolye9KcRjeR071PxbHQtEW9xCZp3h3wpeePNaTSrFW8yY7d/YZ/z+lXfCXhnVfiDrMWmaRD55J+dh0Ar7P8AgP8ABHSvBtil5qNiIdRibiRj355r1sNhr6vY8nGYxU4tI2Pgj8K7X4H+CxFOkc99PIGeVUAZcj7pau0hMkF3Ndzv5kMnzAHtSzXst/qD29wd1mvIPaqGoXhubg2qnbaqvUV9LSpqKtY+PnOU3dlW5vI42mnnc7f4AxrBgkkmtnuGctOp+TPpViS6/tCR4kwYoDn5h1/zipkVZJo7+RfKs1+UoByTXYtCCrH51yoWQYkk4LY4FT3Ug+zx6dbLh05kI9KnuJvLWWULiGQHyT/KsnUdVPh3Tzdlg95KdojxyelJ6AeMftP/ABGtPCPgm81KKdTpkEeJ07BsYHH1r8dl1Kfxx4v1PXboqGuJCw4x64r7I/4KF/Ey50+3j8JW0qgamc3Sqc4GQwGK+RdBsRZ2MC4GQvPHtXHUdxMkbckygk1pxIJtpHUVUnh3Sb+lSRSbenWuSxJfZmGQjYprLLn5uc9KiQ/MCeBTprksQAaTAimh2yg56dhU7+VJIkqqI505Rh2xUTRiYg9Gp0OJmKHoB1qBaH2V+xD+2rfeEfEg8NePNSzpVzthtmcHCYPX+VfpXcW9rq1jHqNhKlxazLvVoyD15r8AJWEkhH3ZY+UcHBGDX3f+w3+2hJ4du18H+Mr1pYJCsdvJL27AfqKiS6jPveSMjII21EU+bNb91axTwRXVsRJbTqGjkXuKynhYEjrWRZUbH1prYK4xUrR7PvdajZgeKBkDx45HSnMuVp0h3cCmqCM5PFSxDNopad5Z5IptIAK5xSKc59qD+VG3jH60AIzCik74NFBSOa4XJ70itn3NDdOetIvy0Ejt22jdnPGKXaG5NJkZqgE5pMFuKVnGPelXpSFYQjaBSZNPKluc1Gx20hgc0hajcWo2+lAmJ3oY0pU0xu1MAJJ6cUq570i4pWzt60hj/bGaawA56GmRsec05l3dTQAK2OaPvtmk29qdtG2gQKoVs0rYPIpnApe3vQBIPu0YpFanHNAwChuopCq9qazHHFC/dzVIBudrU5skUjN+VLy1MkXcAMUoYAdaTbnPrTAh3c9KkCbip7eUeb5cmTE4Ksvrmqy/u29RUvm7WVgOhzRuiFo7nwh8cPDE/g34qahb+R9mtLuVpoeMZBOK426sWfPP419P/tleDzqei6d4ltmAeFliZT128k18x2V0biBDzjb1rimrM+hw87wM5V8lipHNW4VDjFSXFv8AKXI5qvHIUYVznYiVh5XGacvyL1zSuQ2CetJjqexpGkROZORSNlutSr7UjJ3609TQi4K8dapyxnd6GtHy/lJA5qBrdpOtMCuijILckVOJkXgAGopotq4FVW/0chsE0hosfaJPMO3gVKLl1XGarLMGxjinKwEmD09aRWoq6kY3I5JoeUTHzG4NRLGXuuB8vrUs0bLMF6imBGwd+N3FTQZjAH61N9k6GpI49x24pAk+gsG+SUKvNaC2RUbi1ENuIRuA+b1qaNt3WpNkrFaMFmxV2P5QKRIwCeM0jRswPas2IsRt5jYqdYwOoqrasY8559KmWQkkUIpFlsRplTk1XW4aRuRilHy5yeKFkXoKsY55RSG4EcZyMU3blhTZYtxx2qWAi/vVypqzp+6NyWPFVoYfJ4FWY1LDOcVA0aDKDyKuWvAGeM1ShYRqNxptxfxwru8wAfWhLobxvc0bv9zCZGbC1sfD7wVrXxK1H7Jplm0tuDiWcg4UfWuf+H3g/W/jJ4pt9I0qNza7x59x/DGvck1+iHw1+FUHwi8NwaXoG26d2zPM/wAxLHGT9OOK9XC4XmfM9jz8ZjI0o2W5V+Cfwo8PeD9Lt109imowZMzcbmPfP45r0HVrqLWGfS4zicHJ7dKz9Zjh0mwmk0zb/aJ+8i9Se/8AOsn7cq6cL3fs1X+JT1r6GFLqj5GdRzk2y3f3kcNu2mrxd4wP8TWIbqVbN7JF33Y+8R6U++vBHYrqLgPfZC1Rmum0hUvhh5bjqPTPYV2RWhjYp/aFguIBCWAzib0/z1rZJXVJRaIzfZvvbh68VlPagSeQy7nn+Yle3ercM7CMaXaRv9pT5mf2qwL9xbPKzRof3dryo7EDH+c15z8QPFVnptje+Kr5lSHToSHjJwCV5yK7LXtUnksxZ2Rwy8XBx830+lfnn/wUU+ND6Xodv4W0K+CPdfJdKrc9DkVnJ6CPiv4wePrr4rfF3VNcmbzIzMUiUE4CqSAatfaES1QDkgYrnvDuirDZh2z5zHJJ5rZ+ytG2N2R3rikyblqzZbpirHGPWpGVY3wCKquvlqCvWkSMs+5ifWua4i7u3DBp+UVcY5qJpUVRgc0izBvvcUmULv3kkcChJ/JPApmCG9qNwB6c1JIkhWRt2MetS3DKfIuraT7Ne25DI6nGSOR/KoZB+dQzfdGRn1oGj9Nf2Bf2vm8a6efBvii4Vru3PlQvIevHY/WvtW+sfJyytvXswr+f7Sda1Lwnr1hrGkXUlvLayrKfKbBbHOP0r9gv2Pv2tPD/AMcfBEOn6hcpY6/bDy3jnIDSYHXFRKOmhR7PNEWY5OaqSQle2K6KTSxM5kgdZU65U1SurFo2IKkHoc1jqhmOkfPrSyR4q2YfL5xSeWJFPrSGUue1NbI5PWrQi2vg8VBIp83pxSAZtB6imt90kc1LgVGy7Rx0oAj3D8aKft74ooGcso3Amm5OPajaQfSlVexp9RCBT1FHC5zT87eBRgbaoCM4ODRu/Kl3Z4pxXvSAFfsajY/MRTmyKFXqakBFwOtP+lMX7xzTs+lBN+gm6hsbaBgNzStjsKBEW30o2kLT1HPpTmAxS1GRLmn7uOKFFIw7CmMjDljS80+NAqnNOXHNAhmMgU4L070Fh0pFy2aAHLgGl3g9qaRjAob0H50FDmxSkccdKYy7sA0cr0NUgDb82O1L93pRuIpNxNMm47P50p+tNX1PFJsO7OaQwb5hgCpY+wP0pFBX5j0pVbfn0pEuJjfE/wAJxeN/hrq+nJjz1RpUPfIHSvzw08S6feXlhMCr28jRnIx0r9M9NuBb3G1uY2GCOoNfC/7SngeXwL4/uZBGwt75jMjAcZYk4rCotLnpYOTvynnzTM2M9hUOB1qxCytGMnI6ComjG44PFcJ7I5Y/MXrTtmFxQvyrikplpMX7q4qQYePnjFNiUsenFS4VWwelBokxsbYGBQetSbRngVFIrLn0qWUxhjDNzzTJLP7RkbeKtxRjAPeplYRtntSKiZB0tH4RirCkXSWVsyNuFX2A88utOkbfxQa2K0casdqLipJLUx/PjnFJA0sM3CZX1q+WEv8AWkPlRUhjaQAGpWjMXbmlT/XADoKtttxyKBpW2HQx/u8k5zTPs4jYtn8Kesm2PFVo2LS4yaQyyGLY9qfJJlCB1p7LtTkVEI93IqRCRtjr1pyMfMpyqMVGqlXJxxTsAs25/wAKSMqMc0Hc2eKVVX+LjFAE/QZFI1zHEu5zzVa41JLdTzwKx7nVIbjd82PxpagbUOqJI/IO2q2oaoPM2xEgVzw1Blyi8j1psN8sbHefm9Kag3sXG3U15fETQRFZGwB610vwj+G+u/G/xPFpenQyC23jzrjHyquef5VH8Lfgj4i+NGuw29jAfse4GRycfLmv0x+Gfwz0D4K+EIbHT4I4b5ox5kg5Z3716WHw/M7yRwYvFqjG0XqHgX4daR8H/BtvommQRfavK2y3aoAzseCc1uQsfCNr9vuZmummAUKp6UWM+5hPquQvZ5OKql2vLyQ37f8AErHMeelfQRpqK5T5WU5Td2yPOHGv8tGOsFYl1MIdUbW3jLWLgDy/QmpDeXLXj2x+TSiPwrMtRJqV9NYTylNMXlVxXZGNjM0oFcXBv54wtlIPkVulZ0xRjLPPlXYnyU7fhRHHc6lPJp0txssbf5kIHUjpUUFzJqFxhox5VmcgZ++enNWBPpKtDZtdyhjedFQ8lajuLybSpFvFx9ok4PHOK2NPHk3n9qSsGhkG0RcYGBiqesQrpN5Jq+oHZpuMgjBAqb2Ezzb4zfEu3+EHgy48QXhBmnTn5sYzmvxo+JnjdPit8T7nWC7yWbSFlQtnBz1r6G/4KA/HzUPFvjKXwXpNyJNMMu9mVunONtfNej6LBp9sEGDL/EfwrknIkveYkb7UbIHAqfd+NRvax8EcGnB1DBe9cjepLFb0pYYyz88ilkHl444NRNO6sAo4rNgPkI84D+GhkRn3qc4qPHyk9SaktlHTNIolWQMOetB2/wB2kIEb1FJcFW6cUBYSWTa/Tg0u4Yz1oEiMfmIAplxcRIuAc0CL9jaxsu4/MG6g0/T49Q0HUxfaPe3FhMOhglKfyxVPT5HjiyehrRttQO7awAFMZ7x8NP27viH8NZIrK5na+01fv+cdzH/gRNfX/wAKf+CmHg3xg8FprsP9nTdJpXIIz68CvzRlgjvFPmYK9qzv+EfttzPGfLf1U0rXA/dzw18QPCvxHtfM0DVrabdyq7gCfzrVm0m4gXO3PuvNfhL4b8aeKvB+oLcaRqlxC8ZyuJCR+RNfTfwl/wCCkXjTwXJHb+KLI6nYh8Fi2Dj8BzWbgM/TWS3ZAd4xVZojzXjHwu/bz+GfxOYW+oXC6PcED5ZAcfma930+bSfEFqtzpOp293CwyoWQbvyzUcozJKc9KYw5xWtdafLbswZcgd6zZIwrZB5+tQ0A3y+KKmjjdvpRSGcIrZ70pJNM27RT1bgUxXEzjrTSxqX9ajaqGOVe9Kz8Uxc59qc+DjFSApYYo7UjJnFAz0pEsRqQc08/rQAKAE8vvQGFOYleaj20DFJ5GKN3ODSL8tL15ApiEZsU9WG33qORfSkViBSAViaTmlb5VDetL95Rigoauc+tPXK0LhV96QseMGgAds4o3bsCm8t1pAcOBSESNSbqc2Fpm9R2qhDuGpY8KelN4pymmIc2KYSQaeRupaYw5ZcEUojC8Z60q/KetKq7pB654qWF2TWMG5mkbonzH8K+Qf2qPiJF4s1qHRoYhJHbPxMR82emK+gfjx8Rofhp4ReKGWNNTvEKxhjzgg9K/P3xZ4vm0nUo77VNzz3EnLdiuM1nON0ehhdJ3N9YVhtkB6gd6qnduyvSr29b21iuP4HUFfpUZg2rx0rz5Jo95K+xCxKoDipo8OozTUXcMGpRGFX0oNUkhPXFJt3daerDHHBp3JGaChsZw2D0qQjd7im7fzoG5U4ODSsISQOvTpUalmfk1KrFuD1pjR4ORSKQvltzgU1V5x3p8cgGd3WlXDPmg1Q7cVQ022VmznpUx2Cp8IsPHWoKEjCN0HNObG3HU1VTO4kVPGvr1oAVU3cHgVP5CLgqOaQJzTwCvFADHlYL61E1wwU4HNSzNtXioeVXcelLqBLbhmXLCpPORV2k4NZs2ptD905FZOoauz+xq1FmblY35LxIWI4NYWraw0KsVPPYVQe+nWMsefSs+SR5my9axgZ8xI2pzXA2t0NJ8irw3zVn3F1HbPjvVSTVlAZQp8xjgKOp+laOm3sCky9eaktqOOWzgDPJr1D4L/AHxH8Vtdsbma0ntdLLg+cylVI966j9m/8AZL1D4oXEGt68WtNOyDFG3Bk9K/RvwB4fXwD4fTT7qC3i0+EbI9q8kDua78Ph/tSOLE4tQVkR/Dv4Z6V8I/CaRaVBH56pukbAG8/5zVxW/wCEpmFyf3L25zsXoamvLqa+1FJ4mLaWow2PuisvXmN5JA2iMTGoxN5P9f1r14Q5T5+U3J3YalNL4xma0MflxKfp0rN1S+l1CNdDjQMkI2lh14rTvLxY7AJY83+PmC9ffNZmoSC109JbIg6i3+t9RXRFdDEgupDeaU2nRZLx9x9azVkn1hY4bAA/Z/8AXMeOB1rR1S8XSobb7EokuZeJqh1WRPC80MVhhhe8TenP/wCs1sBBJIdQIGnKTHBxO/0qdpIY5rYRHbbOQJZB0B75qOORtBL2MOz/AEr7xUeuKi1SE6fYy6OW/f3Q4I6LnHJ/KncDVt44rqeSLzlisolyZmPyfga8J/aU+MifDvwvqYmuBPpMSMoc42M5Hyj866bxjqUqaJ/wi1vM0N2mWnlBwNvJHNfm7+3V8YH1y8s/AenTGeGzb/TJFOQ7hgV5+lc85aEs+atS1W68V+MNQ1/Zj7ZMX2g5Az2FdDZae0aF2Ys9RaXapa6ZFCFGVAyfWrkMhibrn1rhcriICzxsd471Msat84602a4Esm0jIp7J5IGDxUMTG3Ex2rnmnKQ0ZZeRQNrjnmmKnlqwU8VmxD1X5SwFOjj2/N0Peq8LPyO1Trlee1BQk0mznrULSqwGafNEZOnApfs6LGM8mmBDdBFUVHBbo33+fSp3twy5Y5FV9sm4+XyKd0Bdjf5dtXYVjCZfrVG1j3R/OcNU0bD7rU+gFjzSQRG1VVvDb3G0nOeuaUqY+VNRrH5xJblqn1A047gsRjAHrU8m25jwwDgfSqUenzeVuBwPSqUbXtreEKVaPvSAty6faGVZdhWUdME4rvvh58dPH3wyu47jStauJI0OfIL4Xb34rgmugsmXHNT2t8iSZReaFED7m+H3/BUe6sZrWw8VaSHgk4eeMMzAepr7D8I/tCfDX4hafa3Wm67brJMo/cvKoYE+2a/Fe+t47oAyKAjcMV4NO0uwutPuBdaLqMtg0fI8t9tU4ofQ/eOOylvIllsXW5gPRojuor8dPBP7Xfxi+Hdu1rp+qNeWuNoa5ZnP4c0Vg4aiufp5I35UqAmpFZZFximKArYzWJY/FFHGOKXjFUAFcrkVFtI6VJuK8UMeOKTAbuOKcvNJgkUfdOaRLF/nRtyM0bt1L14oENzjrQHGfao2jbd7VLtCr70DFKg9OtNYnpSLlWzQ7bjT6AJ+tIuMml3CkXFIdxeJFxmjhRg8UbQo4601WB4bmqGKDmncfWm5HTtQcDpSaAecbfSmcGl27qNu2pEDAHvTdgo5pV96ZIgBp689KTcM0vmjkdDT6CFZttNDn0pu7mpFwfrTGKH6Zp1xcCwhN1L8tvECzuTxgc06G3M0gQdWOPpXkf7SXxBfQtNXw9aS+XPJjzJFPTpkfrT5bjirs+df2lfiAfEWuTandS+fYW58q22ngdx/n3r5b1aa98TzmS5dpEH+rGfu+ld58Qr211DUJNNs5muFjfM2/oH9BXPrZjSNNeYruK9BW/KrWPUpe6dz4J1n7doqWr/66M4x7V0KuIoyH4rxv4W+Ipn8UTrP8of7qnoOter3u+STf2rzK0dT1qMrok80KcjpVqCRZsA1QjAKAAVLCxXgda5GjpsXGCZwBk1IqhVyRxTISuwk9albb5R55NT1sIg3bs44oZSFp7Wp4I6U2RGZfl61XQoYrdu9NO7cc9KkjjK43dabMWzwOKgtBjdTNzLVi3ZVxuGatSQoygqQKLmiKsagrk0HJ4BqQrtGCc1GzheR1qCieFkLbB97vVqOP5sVVsVVW3sfmPSrG5/M4PFUVYfIBG3vTVfk5NV7q6w3JqnNJK5+Q4FAtjVfCrknisXVL5/uRHC1Fc3UhUjdWa1wW3ZNWomcpEkkpEfJyazLhi+STiobrUDCcds1A16lzGQPxrVRMLkragduzOQKozXrLIcHimNIsHJPFU5jc6nepaadA1zducLGozmuiEbuxLaW5TnuJ5LwBBvkc7Vjxkn2r7G/Zc/Y/v5ltvGvjOyb7BjdBZvjLZzjI5rb/ZX/AGP7G+tbTxT4yi2SRnzI7CXjLdjX2tZLqMd5DbtEo0KJMbQAAAOmABXq0qHVnk4nFfZgHhrw3Zajp9s9qg0+CzYCOGMbMYzV3UNXTXpzppHyA4MlM1aaG8VI9Lk2xqPmEfH51m31xZQ2m2w5vF/1mDnmu+MOp43NKWrHSagdGuG0OMb436MenPrWfdaq/g5lt4EVpLw/KR0H+c1atfKn0xnuCP7V52N3HpVHT7fzYpzrWHnX/j3bv9P5VsvMCVbOTwuH1KRxPNIOR6ZpixnSWOqzkPDcnIj7jNO09pLtXW+GQmSqv34H+fwqlpu+8kuDfOTbRE+WnT6VXUCBW/sEy3FwRObriPvt/wA5rLt0kts285MlzISyBquNJ9ttpLmdwRbn93GeM80KpZY9auG2yLwI8Zq+gCQ6qnh2zk+1R+bfv/qVYZIz3rnNUurmHTZb27kzqEo/d57GtfWli1KU6xK2xITjb3ArifFXiGGHTrrxXdt9n0qwjLcnAIHespMTPFv2pPiwnwn+Hc+qm4WLxHdI0cW7nPbp9DX5cab9r1rVbjVtQkkuLi4cu0jnrnvXqv7TXxq/4aC+JM8kDNbaNZELbw8kMwGGP6D864u1dLa3WIgAqMcCuCUiWP44xxUqqgYEnmmqokwRxSTZhXPU1jcEPZVLZAxQ3K4NRQzCTqMGpW96LiIm/dDFODHy80/y/M60sLhpPK21IyC1kZ2LHgZ6VPu3cUXMJt2IA4ptvhWz3oQxdx6dKNrDvQ43NuPAqu91tYgdPWrJLEnEZwapxzvC/A4pk25cvuytEcnnNhaQ0XfMLNnHFP8ANSRgAOarx7o85OaVZF35xg07gWGY4x3qOOZYfmdqbIrupKmqQj6lutS2B0UWqLdW/lwt83TFRtIYYzvGW9axrKRbWYuBzV2S886QBvu1SQXJWIkXPenRsq8ng1Xk2r901GH+Yrmi4FtLh5GKbsjtTo1KscOye1VbOURTEt0HapZJfObcDtFLmAkTV76ORkD5QdKKihlDZBIyKKYj9q8qqnHWoud2TT8daAtcRoOHSm7jS9OvAooAazEinRN60bsUnPpSAkzg8UH5utKo+UZFNdvSglicD2p3ODUXNOjznmgQ/wAztig8/WjAzTty496AIyD+NJtz2pw65NG4Z4NADWULTe+BT2IaozgNmgoXHNLwaGkCjio9zN0NUhjmGKOqim896euaQAH2ikjbd16UjA0KvNIBxz6YFMfPFTLnp2pdvY1QrEW3AFKqgnmnsuPeo+e1ILEm0DFODbenWovmNSwxGWQLSIegX2rRaPo9xqMzbFiQnnvXwx8YvEF34gkudXW68xGcrtLcjmvpn9oXVJBoMOmwzCHHL89uK+G/Guqu83loxSLodvQnNdETamne5g2unrLfqCd7NyWxSeJniDrapggD5hV3RbUQo0zMxbqCaxryEy30jnlmNWd6OKumOh63HdxjChhkrxXruk6odSs4pEO5SvrXlvxAtTb2aBFyW6+1dT8ONTJ0dIjjKjHFc1WN0dtCWtjspLtoWAAqxb3XmGs5nLElqIZvKkBB4rzWtT1Eb0M53YPSrQCyHrWQ14rRjb96pbe5KqCetKyB6M2vMbhe1OCdDUUF8rRjI+tSSXEW3K/MfSk0CIJpPmxilVvlHFOYCT2pPLC96myLItrBs+tJNGzjgkHvUsjFV6Uzdx71NirkqKVhAqGRcg4605WbuarzSMrcCp5ShC0ka9eatWdw7H5jzVVdzNzTGZopNxNCQuYuTbZZOetN8wQ5JOFqjJq+w5KZrNv7qa8Bw21K0UdSZSJNQvozI2xqxmuyJSGPWkkjKI3OaobvMY5bBrdKyOe+pNqFwqqcDJrIivhDId2FX3OKvXUsce1GbtzUGneCdU8dasun6LbyTuSBJtXO2tYxcnZCclFXZHpsjeIr+PT7KNpppXCgrzt5xz6V+h37KP7IMHgXTbfxZ4mhjvLxlEsML/MB3H86tfsmfsmeHPCGj22ra7b/AOmpgkT45PXn2r6Zvnu57yK30+LOnRAKGUfKAPT2r1aVHlep5GIxN9Ij10mz8SySJbs1r5KgbYxgfSo/7e/sxm0KTa+3935mfm5o1y78m1WLSQftHSTyepqhHHbyWLNMf+Jvs3Et97d7V6Cjfc8p7jrqT/hAWQDN0J/mO4fdB9Pzqpe6WmiomrxOT9o+dkbpzTNDXzFkGuSv568J5xyW9MUackk+pS29/vFhuJiD9PwrRX6iGxxi4ePXB/qk6x+v4VJcWs3iTytTjIhjt/mKd2xzTWt5n1IQA+Xp+MHb0pGme11ZbODcLFhguvfj1qxiX19L4sQXdoojFsMSKxx9aZcXUd9YJLGpCwjEnGD70+/UaLfx2Vnh7e4H7xv0qpdMmnXP9mwHekw+Zj+tCsIzVxJqCXiqx01fvkjrxSyKjap9tuDjRBzt7dutXIt7K/h4DZayZPnf3eM1g6xqE1xayeF1CrFGylZTxuOc9aUpWRRh65qP2nxFJArGHRnf5MdCM4Br4l/bx/aEm8M2lx8PtLljlt7yL5vJb7ufX8q99+P3xxsPhf4M1LTpwDq1rCzQ9NxIBxj8a/KGTWb3xf4ivdc1SeS6eaZnAmbJXJOPpXHOdyGXND0sW9qJJvmmI/nzWxGobgjjtVWKYzDKjtjirKybV461yPVkDdx346AVLLiTFNWPcuaR24wOtIaEaMKwxSQnzGIp9sw2MG+9TYRtz9aQApMcnJz6U9m8klx94VWkf98B0561aH3eelAmyP7abjJfrRHIFbPalkRXHyiojDtj460wuJdM27APBqrJCVXnnNSNINu1+tK0mV29aoRCrLCu1uc9qktWTcccGiOzRJPMZsn0NStCJGyDRcdxH3HODnNO8kbOetRxoxbBOMU5mKsOc0DJY5TGu08VUmkyxp9xIWjJXqKgtWWZdrcNSAlijJ+bGRTw3GMUphaH/dpMFTwMj1poB0f7tsnpTY2DSE9Kedu3BPNRCFuooAsSYVSR1NV5HlVgP4TT2X92OcnNRXUhRQe9MAMflsTu60VH5wkA9R1ooYj9wMUm7nik5o3bl6dK4ihW+YUD7oFIreopxIpFBt49aVVIGW6U0gjntSkllwaAGrMSxHalZT6UxRtqxztFAmM2n0pOlHmEGk3bjQSOJ4puO9O20isAetBQZ3UgHoKGkC/WlX7voaBMaVLEdqGQL1pWJ+lIGLKN3NArkRUt0pyDHWnKBnjpR/FTGLtBpOfwpozuPpUqyBuMUgG849qdtO2k747VIuOmaAuR+YV6incsM07bk0/kLjFO4XI9uRSqo3YNS7RgChYfmyaChknbjFSQ3EVtbzTvhVjUkse1O2F+McVyvxX1RfCvgyeZipeUFVXPPrTjG7Ia5mfLvxf8THW729kmvijMxVFycYB4rwjxVGk0cFvGQXJFem+Lo/7al8yI/eO4j0rzW++zw6tmeT7pxXUo2R3wjZDbuaO3hhto/v45rO+zjzzM3QCrN/HG9x51u24GoNSLCxZE++aDU5jxBCLjzWkIIPSqfw7vGTUHtz8oBPWquszTRNtYnPpXK3WuXFnq1r5LeTvcZPt3rKSuzWDaPdZLheec0QzqyEmsuzjN0sJQ7lYAnmtKO3HKk968ycbM9aEromWRRyDU8V4FGaoMoUYFSDake3+KszU17PUEn+TPHrV61+WQnqK5a33RSgjpW5bXyRjaTSA2nkAUkcmljZXXOefSqUMqMpKtnPvUSylZThqVmO5dkn6riovMNNMwblqa06LjNKxVxzM7H2pjzEN6U1px17VC8vmNxTDmJ/PMjZ6VRurhixGam8w9M4rLvLhY5imfmpJaibHSakI1KsM1lteO0jc4X0qS4JI6iqrKGHvW8YmTY6S72rgcjvWZNcLayCSQYU9alvJls4t8h+XPJrr/AIRfAbxL8ctSDWdu0ejwtulnIIBUdQPzrojTcmZSnGKuc34R8EX3xc8UWmn6OrJEzhZpyp2qDX6afs9/su23wXgW/Pk6izR7pJWAJPHPU1sfCb4E+FfBej6fY6ZpypHt23NyRglgB3+ua9H1Br2xuYrPTnL2WMAdQB9a9OjRUdTyq+I5tEJDqtr4yL2Vohs/L/ixxgdsVPca5H4LhXSwrXDsN28HjmjUobKx0vzLHaL7PzBSM+/FUdLkikszNrBzdg5UOMEDtXoKKZ5lx+4+HcalJ+887kRjgiqlxavM58QN8sbc+T3xVjS0fUJpxqxzaDmHd8oNVIbiS61u409226V0Ufw9BxmnoIjb/itpkvoF+zfY+CG/iI7VaW8/4S1jZRjyZbY8yZ4OKqXSvpeoRWelZFpI4889vc5qfxEqeFbeG60s7nlbbIyc8U7gPubw3EL6Rbrm4bjeOlRx3RsoW0J4ybraR5nfnvTlAhtU1NGElyeeBk8+1Mu7Qi1/4SIv/wATIjiH/wCt+FO4DdK26LYzaZdKZbqfIhduSCRxVRbaXSreWzu03XsnKeoFXAp1TTYtZY+Xfx4byj2NVNVu55LNtYlxJcxj5UPelcChdyfZbUQjd9u9j8wrh/iB4jtPD+kvqaz/AOk2gMlx3KqBk5/AH8q1tW8Stp1v/bs6+azcND6fT86+If2yP2nbXwjNPpGi4u7/AFSCSOWLPEII2nP4NmueUrjPm39rb4+W/wAfPiJbf2EJItNt0Mckmf8AWncTnPpzXnVtp8ccaovYY4rE8Lab9l3sx+dj1x0HpXRMnkgAEkmuRkMfDGLfCjpU3Gc1BbqWJ3etTtGV57VAis1xJHORj5O1WI5N0edvzUffPIqxtVgCMZpgZs8zKwUL8x61L86Mo/OrRjVWLd6i3YbnmhWAbLs25x81OGTGM07hm5HFI6jtTFZEcYKseaVpAhO41GNwzUfl+ZlpOBSYrELL5kxKjilkkKttxg0u4Kx2dKRn8xRkYIpBYRSZG5NSR5jk5biq8cg34PBqQj1oCwNMWkIXp60+FlYHdUZUIKVSkZy54pgT7o47WRl5IFULHD/vMjGasTyQLCyoc7utVoYRHDtU1QXLd1cNKu1TjFOtpnI2t09aqx4Xqeam2ueV6U0guSTQop3E0PNhdqdaZKA2OcjuaVlEeCpzUsRFFuhYlsnNE+ZGBqSafcq57VBJcfOAtTcpCr8rHiilk3Zz2oqrln7gbuM01eaUt2poX3rjsSSN8opNvemFqcpOOtIsX73FOCELUW7Y2RzTvMY/SgZIijdzTmwvFQbjuzmn7iV9TVEDG+9SbsGik5JpDJNxamlfwo3baOv0pDGkEEHrUpm3dsVE7beByKFbPWgljqVfu9Kac9qVSdvNAhjAjpSqp9aXnmkTPJqgJFX86jUOrcdKkB44pwj7jrSAZtyak8vA4qRFHGRVhf3f3V3E+1TqKxFHGNuSacT2xkZrRtdIa42vKfs6sM7m4Fcj49+Nnwz+Ffmp4i8T2UFxEu424mAdh7VXK7lI6m3s2myyIz+uO1WZtFSG3M89zFAnfzGAxXwr8XP+Cp2j6THPp3gbTftJJ2pcTKrKfyNfJfjb9qT4t/FLUJJjrFzplsx4jtZCi4raMAZ+sni744fDv4Y2pn1fxHZO/QQxzoWz6YzXiHxA+JVt8VNFfULB5DYbj5ORgHjg/rX5l6dpt94u8baTpeq3rX11e3SRtJcNuwScZ/Wv0a1HSbfwz4f0LQLOJEighRHKDG8gcmt1Cx007X2PMdevl8P+H7m9YZlwQgPevJLKFtWWa8nbJZunrXo/xfR/tkWmrxDwcdjxmuEaFNLhS3798VTOoWxjRkZMkY6ZquzFLlg33RV/yV+xeZiqbQC5UbetQIwPFVhE1v5oX5ia8p8UWEsbROvUdc9q9n8RYjtQMZ2jpXlXiJ2vM7TjbkYpDvY7bwRqUzadBGzEvt4Ndaty8LfvT+Ned/D++C26rKcSRjArv1vPtSkFenGa86sj0KMzRh2yLuNQzKGkytMjyqbVPJpohkhUs3Irmsd6JoWw2DVr5WGRVVUyobrmnQyFJMHpT0AtWztE554rQhbc27NZxYbvapopMdKYGlk+lQNiRuuPamvfCOML3NMCfKGJwTSAJboQttP4UnnHqOaJFjkySckVU88hiBSsATXO6T5X6dapz/vZNx7VXb5ZGPem+YzAgnFNIljZpN+eelZsmqR2m4liXHQetS310lqu1RulY4A617J8Av2T9e+IWpWGu6tZTpo4bzSCMbwD0rqpw5mc058quzP/AGe/2dtR+N2uGbVWbT9Fj5MjAbWH1Ir9Hfhj8Lovh54fh03wwkb6ZGf3spABdh1qfwz4X0X7DbaFpVoumW0Iw7IoUtgV17JJ4MtVtNH/ANJiY5fzOTk9a9WFPl2PKqVr6Is/2tZX1uNJsYzBOeAMYGepqlJcL4Rh8qc+Y03zAdcVPqUNvbaY19AETUuqZ6gnrWXogXWme41xtk0P+rB4BrrgrHC2Vf7Dl0u6/t55N8bciPNTSWjeOIxqYk+zwR/KwBx0qWNrm8v5ba6GzSv4WqnfXQ0e8Gn6ed2nSDLHryetX1JJryVvFVubK0XabUcs3HT/APVUVtMuqWn9lwc3g/i7cdeabfXY0cQx6WweeXiVvWprm0g8P2q6nak/bGOHGcjn0oAfDdw6FG+nXJJuphtGORn61Ws/s+g3Ei6qN0Ey/IOvei4tYZbH+2bg7rtB5iR5yN3YYqvpNxJ48TzdQVYjFwqLx09aaAsW2nyaLcfbW3GybJCj0PSrEEfl6r/azbX0t+gU5/SnWs0niR5LK4Igt4BtG3gtVOC/SC7l0RiqWgOEY8UwFvpvLvJr0AixbkewrG1LUolk89226Wy5LMelaskz31w2jKN0QPHqa4TxrqcO658M7gbYLuklXop5BBNTLYDyH4/fF6x+FOkX1zdA3FvdKws2Xna2P/1V+Umr3U3jbxNea5qDs9xcSElmJ6dq9h/ah+OV58SPF0vg+OVTpWlSskckXUsDg5P1FeWWNoILdUb5iOM1xS3EA08bBsOMelFrPuk2v94cc1ZSUQN83APFVLlSl2JFHymsWSXSPmFO5LYByKbH84B60SxuvMZ+tSK4ojb7QGH+r7imTZEpKHj0p8bHbg8U3yTvJzTC4nmELk04Zf2qNVkEnP3akZmyOKaQxcY470xdxf2p2DuyaRt68L3pANlHoeah3ed8van/AGd/MOWp6wiNuBSAqXEYt1BHFN3FhVqZBN8rNgVWchW2pyBQSVVja4uNvIq3Ivl4B6U0HY2R1pdpfrzTKEnUMAI+tRNbll2k81ItyI8gHkVLHidt3U0CsihNCIwFFN3NHxmrV7GIAO5NVgu7k9KLhZEsCKyk5571YDGNNoNV4Qu0kU/zucY5p3KSQgyuR2qVdr8DrTeMU3YP4Tg0AMmjeBvUGnhlVMnrTCXaTa9OaPnnpUjsSKRIpyaKj+R+naigR+3fOaXOKYzMKaretc1wHs1PVvlqMgYzRn5aCiQ/NjnFP9MVCrU/cF70WAZIxVqFmPehmHfmjA69qYrDt2e9KtRU4NnFSMcVDGj0UHikO7tSHp70gH4H1po+9jtSq20UoYZoJYBtrYPSnfe6UjU+PFAhF96VVyp7UbdzGp4Y2dgoGT2qkIgWMnjNWYIzjAGW/GtK30YtGZppUtYlGS8rBQPXrXjnxm/bI+GfwNsZI5L6PVdWUEJDCd3zfhmqUbhc9ii0ciPz7iRbeEc7nOOK8X+OH7Z3w3+BVk0MeoQaxrm0lLWJuePwIr85fjZ+3d8RvjFeTWunXsmk6RkhYIcBiO3OOK8DbRrzUpPteoTy3MxOSZHLH860UB3PpP43f8FFvHnxYY2ulf8AEktfuqIwA+PqK+dZbPWfF90bvWNTub2VuS1xMzt+ZPAqbT9LRWHyBdvSt63uorcbQACBWqiPmM6Dw7aWsIXYhYdSQCaW81aazhMMBKgDA46VHqWpGObd/Cao30hksHuQOFz/ACq4hueo/si+E08ffGi2lvi5GnqLtSDxuVh1r7w17N1rE5xgRkke3JrwT/gnz8P4Lfwzrfi+ePF0zNbxsRxsKg9PrXveoSbrG8kU7JTkhjW61OumeNfEeGXVrwyoeY+rD6V5xDMtxN5M7ZION1eo+Lmaz0WaU/fYYzXkNuSzFj1JrOSOg3NQiYRKsf8AqqrQqY0+XrWlbyB7TyvvZFZ82bd1QVnYDN8RLttVJ5Zq8j8R7reaTaa9Z8Qb1hJPPHFeH+Lp501AsWwlSSyf4f38t5qUls7NkHIINe1aXcwLH5Jb5/c14h8PJPL1R50GCeM16nZ/6VdrIuQcda4KyOqjudLJIY24qRbwzx7D2qqvKqSckVMig9OK5bHoJjvOeNgFPFWVIZcnrVFso4zVmL94wApWLTLin5R3qVcqMiolj8tetSqx247Uy7kTMZG5q09xuhAPBqKRRGuR1NV5JMpg9e1ICZMrnnOarNuVmNVJGlRsq1K1w8mCxoFcdu9euay9Q1NlYW8CGWZ22qq880mo3rLtihUyyuwAVeSSa+nP2Z/gLpmiQw+MPG6DzN2+G0k5+hP5+nat6VJzd0Y1KiitSb9nP9kODxJZ2XiDxXMY3kbeLRwVPHI/T2r7T0PRdT0iC30rQEDWFthSi9lqHQtT8FeNoVtdLv1ttQAAA5TGOw59K9I0fSJPClvmCRbzd94qckntzXrQhynj1azloNmuLA2cdpGI4b5htPGGLVHZyHwyudUO8ucITWmdFguoW1CSIJdgb1/2TVOC1fxMxS+yyRcqSuOa6E0cT3MVtMmu9ROrSPiwjJOzsR61W1WP/hKmjexTEUJO/HH+elaBuLqbU20hH22LcHjt9abfqfC4W209fMEoO9l5wa3TIKs2qjWLEaJaAi9jGGJ9B1NZ1vMdHtn0eSLzb2T7rVZv7EaDZ/2vaPuvH4cDk4pRZ/aNP/t13zexDcq+tVYor6TJB4fjdL/Anf7u73qS1I0Ob7TqXNu5yisMjmmw2sPin/S72Ty5k6LgDPcUWcX/AAmazRXEggjtccE/e4piKv2WT+1TqlwSmlM24c/IF+lWdWhXVZkvNAYfZlAEjR8DI61VGotqUx8P422qHas3tVkK3gyVdIhYzRTAMXA6k0CLOpMt9a27adl514l8vg1U1SOKbTfscC+dqi4J4+b3q9qMa+DUinjH2lrjgRg4x71nSL/YtqfED4k/i8rvSbAqapqUWl+HzYQvt14jCr/y06dc/iK+MP2wvjhB8KfhzdaOJv8AirtRBTYrEOmR1J+tfRHxW8YL4R8Jap8QWi89LdGkaDP3VAyTx9K/In4sfFG6+OHxGl8SXJLWv3EjbOAuc4rCUhNnEaLL9puJbiWF1uJmLsznJJPJOfqa6ON/lAFFxGmQ0SgEgZwKSNdn1BrmYrisu4/vB9KtR2itC27qRxVVozJgk/SrEE3l4DnNTYRTtgLeV43bntV1VIXrVK801rrdMpw1LYzOsYEmc+9RYRaKEdqbmpJH3YYcCoSe4o1EEp3pgHBFKk3yhSOaCo27s4NNRxycUK9wQryBVyTimef8pI4oceZx2zT5LcKo9DTLIvPPXOaj3Sq+48ilkUx9OlCzDPI4qRC7VumwTtNQbVgm2DmkkJabcp2ikyS+TQTYfNGF+Yd+1RrMyj7tKz4OGOKdxxzQUV1tyxLEdafbk22VzndVmOIMpBbFPWGGMFickUxmdq+6CRF6lsGo23COo5pHuLpnc5UcCn+Y4kBxlcUkMSFXXvwTU7KQwIGTSBt0gxSuzRzVQx0qHjNRqnltnNSyTBhwcmmCRXwp+9QSx+75s05mGCM9agclWAxVhok2hs0horrEy/SipY5g2QORRSEz9uS25elRD5TzTS23FIW5HNcg0S7htpyMDxUXLLTQ22qQywzkcCm+5pituobPfpTEOpQD07VGX20eYT060ATjHQikx83FRB2IpysaQyXzO1M5JpdvFIjetSIVV65p+3bQuCc9qftDUwFWPcvSnwx5OKkgjeTCqpYnoBTtXutN8LaVNqes30NlbQruPmttz/nFNJsRLDp8sjZRGb6CuF+K37Rfgb4B6LPda7qMUmoqP3dpE25yfcA/SvlH9oT/AIKYRxw3nh74eWpe8jPl/bsAp6HBB5r4N8Q6xrnxM16XWfE+oT3t3ISSJmJxn0zWnISfSX7QX/BQ7xf8YLG40nw55mj6azFT5TEFlr5Wh0S51S4a61G4aeZjli7EsfxrT+zxWsi7IlUgY4FWY225Y+nStYqwyp9mS3iEUCLGB/dFXIJmjhCn5j3zVf8AtBGZhtoW68xtqjFaktXLa3SwqflFVPtCTSEA80sgI5PPrS2tuJJfQVI9kRNYG8k2CpPEEK2ukrZxjLSEL+dW4D9muD34qtbRv4i8Y6Npqbtz3UYKr3G4VUUNH6R/s76UvhX4B6FasgjlubdZCMYPIqzr0UkdqI484c4JrpF01ND8LaLp0eQLa2RD+Gax7qQ3E0cWOh711JWOiMuU8n+LlrJb6PaJGpIbO7A+leS3UYWEYXDV7h8QZGk1Brf7yqvTqK8c1e2dXZ+mTyvpUyR1RldXLWirusGyf3uOBUGpALp7Skfvgadp0iSRApwV60+8IlDSP90VixnL3V1JcRASnA9DXlnjzTV8l5M/SvStZut02EXCk1wnxAtZP7NzGpJxms2DOe8AyL5hiVcN/er1bTchkAHQV5V4BY7iwGGBwa9T00uuxh+PFcNQ6KJshgTjOKsQr6mo2ZGUYGDT1XbzmuQ7oskkhDd+aS3zEx9aG55HWo/MZecUFl6Od5Oo4qzHKM4NZ1vMxYDpV7y/mBoKTLMm2RMd6geMbDmkww6Gkly2FPWkNlF2AkI6ihgCCB1xVqSzVl4ODWbfKbP5t9NRuQ7o6H4Q2ttH8QIZ72NLkRgNGkgyAwIwa9++IHjO9tbdZekGdoUH0HSvn74U+Hde13xDHe2Noxt42y0rDjjtXvmteH7u+ubX7eipaD7ysMc17mGp8sTyMRO8rHA2vjDWNWvVWwJt5VwVkRjnNeu/C/8Aaa8U/DHXFfXLmTWbArhoZDkj6YFc9rFnp+lwwrY2qxs3WRR9K5/VtCVWS6ZvM77O1dnLdanG5H234J/aU0b4palai3nOmCNhvhk+UMPxr2Ztah1yIw6NcRyOv3yhHA9a/KnUJLuzVZtMLWkqjOU4BPvXsHwW/amuPh2dl7Ebx5hslOM/lUumuhJ9z3JTTbFrNmJv5OQ2OnNVdLVfD8UsOozeZJPzGTzVP4eeKNP+K2iQ+KIQ8B5XyX4Ix6irkVuPF0LXV1H5ctrnbtGAcf8A6qE+jIZlafHLpN9Neagf9AYkKCMj24oRHutSF0MjTgeUxgEVes3/AOEuD6VeRtCqAsrjg8dKjbzoAdFjA8snb5jdfzq7gUtW0s3Woi409VjscDcwqrrkMOrTQHQlMQjyJ9vG7/PNXmvpPD3/ABKT+9Q8Fl560+eKPwPbqLZWnN3y27kj/OadxGVqlvGdJii05ANRjI3OOp9aWx1YQ6O0Oo/vNZ6Rbhz7VYuLM+H4E1d3z538A525qpcaH/aFx/wkskjD7MN/lg/eAqr6ATeG7yCNn/4SANI3Jt/NHH4VgXeoXN9rUv24iHSRnbHxsUYzV65vJPiEYzbxG1WzJJ835e1fNv7U3xxbwV4B1DT7aRYbt12iYcE9jg1nITPnL9vD9oe6sdUuPAHhTU2ezvFZbhUwUCngj8ia+OdLhXR9L+xuuZm53VGtxNqGt3Wp30zXM8j7t8jZYVpbBcXDSEZzzXLJ6kiw7vLQZzirIXd1GDUcX7tSOpqVt3l7xWVxC7sCg7W9jTYySmad97jvQtQ5h+4qmO1VLnP3hVpbiNWCP1obaW6ZU0gvcgt3Z1AJz7UsysuMDiq11C8NzvibCdxV62uvtC7SKBjF6cim/d46U6eTy+AKRY/l3E5NADlxtyetMedmHPQdKjjVgSaeGxxxUiZXaQzNtJwKR/l4oeHzXIBwacbcxp60DICSOlLGf7wp6bRy1JcMscZkXnHagZDe3VstuUXm4+tRWF0Hykv38VnCHzrxpiQCe1On2w/ODlqYGpLJsUljt9yag+3LJGyxnJ9a52+1iW4YxgYHSr2mIYbUsM7jRYVmXI4yo5OeaswyKAU65qtZt56kvwRU0LLHITjJ7UxllYxGc9KU7ZT8wyKgaR3b0BqxHtC4JoC5A8P735OBUoiC84+akmbn5TQzMqg5oAjaN2Oe1NZTg8nFS+YcYao9+5tuOKAJLXbs4FFOVfLUAUVLA/bPbubFMYbWpeTk96ac965Ch4bApDg0zd2pcimAdOlP8zcAKTarc5pdtFyWLxSH73SlGKkVORmncaE4p3GOKRhhuKXbn2pACScmnhAaFiAbkVdt9PabARdxoHoVlhJ4AzVyz0iS4+Y/u4xzubgD8awfG3xI8M/CrTZ7/wARX1vBHEMrH5oLOR2x1r86/wBo7/gof4j+Ik11oPgXdp2jOTGbhV+YjpwcCtIxJPsf9oP9sjwb+z9ZT2UDJqviEofLhicHa3rjv+dfmH8Xv2ivH/x98QSz6lqVxZaezELa28jRxqPcA81wMOlz6heveaveSXc5JbdJIWOfWtCV0VCkfHHrWqSQFK30eLT9pRt8o5L+9XppNqAk/N3JOaoKrqpUE4NBY9Gbiq31IZZkc5BBzQ1xtxuHFQrIOgNS/LL15q0hkBkhacBeKtxqmPkIJqCS0EwwVwPpU9lapDlQ2aYuYesBbkmnG48vAC4A70smF4zzRwylTgipYr3GPOizLIGwMc13f7M/g6Tx58dtMjjjY2ttm4d+wKYNefNpscjb2fanSvqD9gHTiPFutTCL5ArAS49V9a1gXE+yfEkkd9qEixjaqHgDpWBNZr5kjYz8vHtWvIVa4mbvmqlswW1uml/Cug1PItah86a7ndWLL0P5ivIdbmJMhz8uf619H63paJ4R1CXA3YyDjnkmvC7rRVbS5HblsnH50jpjsYWkqPJG0YJrUa0WWNkIyMZrNsW+yNsYc1oNM89lMicSYODWNikzzLVLr/iZzW6jhDmuX8Waw6WhjWMuFHLVv2+Tq06yDc2eWqr4shgttNfKg7uSeuKlx0KOM8EzrJK7ouNx5Feq6LcBocMORXnXhm1gVleFsqTyOK73TZUSUKeM15tS50U2dB8smCBint8mOc1ChEQ4ORUxdZVGOtYcuh2Lcha4McwXGVqxuTbk8Comj/d7sc1XfLDZnOazNOpfgjDsGXkVdaXaAMc1TtmFrHjrU8Z85sngUy0SLMc8VIjLJIGfgVUud0Klx0FXfDPhnWfiBeSWekWzsEB3Sfwj8aqMXJ2QNpK7ZR1G/wBv7u3RpHY4wozXsPw9/Zfm1/SLXXvE2opa28mJI7X5g+B2Pb0rtPhb8F4fAcFzcaj5dzqE+APMAITA9Dmunu9ZZnNnPPgJ91VyAPpzXsUMMlrI8ivib6RNVrfTfD2gx2ehWqpHGNp2Acn14rHvNNudcsRJct5e05wetN0/XktmaCKMuxPU0yTVHkneOV9u7oo4r0rI4OZ9SjeLbTaPJbR/NNH0brXGyMZrVwxyy8AV1G77PduikBW65rIms4rO+Zsghz09KNCTBtY2vLVo3HlkHqetZ8dvEqyW6W6tKejMK6m4s1t7gu7bEYfdrE1Jvs9+jRRbU/vetRIZd8AfFLxN8O9YgMl/NHpyNzbqxwR9M819veBf2iNA+JENnZ6WPsl02BKm7p618D+IEbzFkEfmKRnpxWDD4h1Pwrei/wBMuGs3UdFqNyWfrprFnDNaRQ2jqLhSDujPzbe/Ssa+VYbF4yS1zjhuhr5D/Zj/AGoIrW5MniKdppHXyy0hOR7/AKV9h295Z+Jkg1u1fzLN1yuOQe9Srx0EZ+ltBHYt9tG+57M459qqaHEY/tUurvtx/qfM9/T9KfrlnP4gmN7Z/u4oesa98UkyjxoiSLH9nW0425+99fyq031Ao2d4JdWkj1PcNOLHYW6e1Y2qXF2NY8i1lzozH51HPy961b2b/hLbYaXbKIZbZ+ZFGScVw/ibxUYY5fDsCf6VnbLMO/tVsDO8ceKP7FvvL0N2aFf9fMh4Ix0z7V+W37anxUbxl8U20fSL8T6fbnEmw5+bg/zzX2x+0h8Z9N+APw51K3uX3a3eRbLeHqSTjv2+9X5Z6PuuLm61G8/fXNxIZN34msJslmrYWgVSsoy2c5q1D8kpA6Ukcu5genrUjYU/J96ua9xDmYDgdacskm0oBxSxgNgnlqG3x9OayEPT92pzSK3mKzdMdKk8zzIwDwaqLMUYxnoTxTJEhjSTcZD+8BqfblcCozb7pQ+cUrvhgO9KxVgZcrg1S897WY+lXSu7FVpo0mJ9RVJDLSv50IYjOaTayye1ZY1CSxlCNyma1zMrwhxQBHsk8wBeRUv2Eu3J2mmrdFV3BearvqDs2TxS6EjvJMLnJpwO8YzyaguJmfnBFNh/dqZZTtQdyakofJCEYr973qFtqqdxAXvUF1rlqsDiOQPJ9a5i5v5rjIDnGaYdS9f30drN+7+bms+5unbc+c57VX2njPzE1MkeQAaYyNHEmMrt9a3tNkHlqvUVVtbNZl+7xV+3jWD5RzRzIRPtHJVcCkjbbIMjIqZMNHyeaYCVkAI5pikSsitIDuCih4xtyGyKDarO33sGmmzaNiobI9aLjHxxfLu7Un+sGR0FRKWT5T0p4jYR5HSgB+N6Z6Ypqgbc1GrFeM/hUgX5aBjhNntRUbM0fQUUCP21D4601mycimt70oxiuSxYlBbtS5Hej6UWAVYzjNPjOKVdzLgURgjrSADy1SxgkVEzfNnFAuhHgE4BNIRPsPpmpobd5sBFy2fSrESW0Nn9qu5lgtwNxdzgYr52+Pn7engz4N2c9n4eeDXNfjO3y1IZVPvzTSuI+jL6507wvZC612+h023/AL8zhR+tfIH7QX/BRzQPh7NPpPgSKPWtQGUeViRGO3DDP+RXxH8ZP2nfiJ+0HqBk1S6+w6ezfLbW+VQDtmvPrPRrbSYizjzpWHLNyM10xjYRseN/iJ4o+NGuzap4q1WaVCxZIWfiMHsB6VmW9vBZWrx20aqem7HJqPCsc4GO1SKo3ZHNai5rEBjYwjJOfrSKoRcnqTVll4zUckfl/MxzUdRrUj+6KhkI3c1I3mbTt6UzyWk5JqyR0iBVXbVq2twkW/PPpUS7eFzUip8w54oCxKs2QVPHpUDeZFISpzU10odFMYqLzC2B3ouGxH87/MetT6fu+bfz9adHGTHkjmiNQzAA4NJ+Qh19vMJVT8jcADua+5/2H/Dc3hn4e3dzeWpt5b0hkLLhsYIr4RvFn1DUrLS7Ufv3mXB98iv1N+H3hu68K/DvQ7G6kE1zFANzg5zk5ropruVEuSMR5rtwOait4Vk0mWdzkHoK0m0e51GzlMaYBGDTbbwZqK6ZjzE8oD5hmtTY5jXbWWfwzPHCMl1xj8a8S1Szn0vMUyFVJz+tfS914VurTSWYsHyOADXnXi/w5LPpLFoFIB+9jkUG0WeAXmxrpmUj6VDLfPbgn1GK6DxZ4POmwi8hYsepX0rjxeedKAy4Poak1W5gHTVS9llXgyEnmsXxZZiHw/dbhuJB5/A137WqTcr1rK8TabGdBvN3/PNsZ+hrNvQZ4n8N5t4mVpM4Jxk16NpMiXWRn51rxzwssq3M6QttcSetep6JataxgmTLtySK86qbUzqVZ1Ax92rdvKfXiq0Lh7dQTzirNnHuQmua53RLayb48Gmpskb3quhdJCO1Tphecc1Bqi5HGKmXCnGQKqLOq9alaN2UspxgZqepZI1nLq19BYRsuZ2Cg+nvX0/4L02P4a+H7fTtPKl5AGmf1J6jNeF/B7wwniDxFLfXM+ILNSyqDyzCvdrcDULeacHHlc7f6V7OEoprmPJxlR3UUWrjWLiS9j8+TCN15rM1pY7e6S4BJRv4vSrbJHqFmH/jXt3pljax6lZtFOSyrxivW5TyzPunmtZUubf/AFR53DpUGrTSq8F2mXZjzXQW9utzp7WJ+RR0NVLW6js/9CW2e5kHAOMipAytSM95Gs8anI7gVUu4ZGtYpR80qnla6K4kmhtnWaMQDHCiuVs9TZJnSQbiSQKh7lI1ZrH+07dH2/OBVK8tUmg2uvzJ0xUsOo3FrKqswWM05riJbgk/OGpWDqZciG802aOOMFlHUiuSuNPt5bWSOXiX0rsNTuJbebECeXE/Brl9aijs5EmY5yMkKaNAZxt3BPpRyr+Sc5UqcGvpT9m39rSfQdSsvDOuTg6SxCMXONvbP8q+a/ErXGoEThdsEZ7Vz2rWySQLPbMVkx9/0pWuSfsBN40tbu7sIPDGy9ikO6byjuCqehzWvrTRWAhbTPLmRv8AXrCwOPrivzC+A/7SWufDVl0lZ0ke7Ow3V0Sdg+tfcXwZ+LXh1NKvILjUI5ry8IOUYEZIxgfiaHFpXQHQeONQfwr9mn0FwLq4wZWh5475rgPFl3D4f0W68STss93GhmeIHLZ9TXd30lnoMUlzdgiKY/J+Pevkr9rT4nXPwZ8K3upOiXEeqboIFfkHIyAKlyEfDv7SXxcuvjR8RLi+lYvbxHy1jzwu35T/ACriorUR2ytGFwBjHpWNo1tLctd3R+U3ErSgDoASTW7Z5SDYc5rkqSfQgjjAZsfxGrAjEZ561ELdvODDirIjMjdeayTEhu4KcrwaRpixx1NKISWIPApMANjqKRQ5VDIcnBpFhVuOvvTY4/mPPFDZjYbTkUAPkkWOQBTkVDMh3hgalk2cetRMpZuTxTAdu2qCTSR2qMSxPvSNhjihi6kY6UrgQ3dqlwQuOarQzeTceS54HANaHl8g96q6jZiWPegw680XAushZPlAqjJdW8QPmkBlrA/tq7tdyPnrWZcPLdzF2Y1SFsbl74qhyURM46VjX+rXGpKYs+XEaSKxLDcy8VYg0uRpAcbkoaH6GbHZLCo2NknnNSrbS8HGFrZfR0yGzj2qzHGBDs2g0xMy4bOMLk9au2NvA0hDkGrX2FZodqjD03+y/sShnOWzUXGTrGmCkfApDD5fJ5pZuY12/LSRyMgweRTGSQsjfeFLM8eQQctUPzBs9qk/dM2CMMe9MQk6syDHBqbB8lQTk0yQHb1xSxyB19xQUkObGOaX5TxnNMZRJz0oZUXBFIVhBhWORT48OSelRLyx709SenSmOwrOucGimvGJH60UiWj9q5MtSLnpT/Mz0o3e1cxYm01IpGKQYo2ntSAmjfHanjkcDk0xVOM4qzHGlvC9zdSrb28YyzyHAH500rgRQwyXDBERmYnHSud+InxC8LfB/TW1LxPqdvaqq5ELuMnivEv2gf29/DPwuhuNH8LtHe+INhCTRgMFP6ivzi+I3xB8SfF7Xn1XxFqM8ryHPlbiFA9NucVXKB7p+0v+254l+K2qf2P4XkbS/Dinbui+V3HHIZSK+a5rBJNSa8leS4lc7mkmO5i3rk1bg02O2jHl9APWh23DB4xWkUSSzXBbaIkVeMfKMVDteTPmdacrmPkVGsjs2TW4hfLVOOlIqkNntSyL601WLcA8VLAfJGZMYOKqvI63GxuVFTZZW9qiYhsnvmmgHNMNwUfdp20dBQirt96cPu0ARvFt5Wjzdow3WnK/ao7h1LAUhXJ1cSR4SkjUx/e61WhcxtkcCrTfv48qeaQi5CBt55zUdzNHbqdq/vKjiWS3iLPyO1EfJ3uMn0rRAd9+zT4PsvHXxXs1vrpYzbNvWPoZOM8fSvtz4jfHZPCN5FYwWjPbQpsViAc8Cvjz9kC3itvi6l3cSRwxxKf3kjAdVIFe+/H7RX08RzmPIc53de9dES0RXn7R3iW+jnWxC2ynO1SvX9a4XVv2i/HdvGYZrrCD0BFZMNo5iV4zhiM8VPHpi3UMn2nBOOMgGt+VGhe0n9rLxNZ3tmL7zLm3jblV9OPevc/Cv7R/hb4m6xb6E8TWFzcRkkysNpbjA/E18lNpccd86so254xxVPUtLazuEu7JmiuYW3pIpwQRz1zU8pcXY+6PEXw6x5sQXeuPlHUV4P428FTaLfM8kOxexUcV6N+zb+0NbeONOTw/4inWHWLYeVDJIQPOwP5mux8T6KupXFzb3y+ZAxO3I5H41nJNF8x80WiJtwAQ9MvtIbVtOuLRX2O6HGa7rxR4Pj0l2eH5Ih0J6muQmimtpRNHkjpgVnbQ1i7nytDp9xoPiy+si2WjkKnHrXpmjq0cS7myStZfibw7NceObi7C7RIxdvc1sW6v56KBhVODxXBWWh0U1qa0LOsqjOQa1VZ0wFOPaqqwouCD8w5p6xyXEwfdgelcB2o0VY8ZqZY91VlYrIBnI+laAjZoNyig1sU5od3y1cs2kliMZ54qo10scZ3AlqLOZ4wJTkDPSp6j6nu3wFa0sbK9W4UMzZ/h5FeiWN5bC4aGKM7ZeMselcj8MWW40H7XbQbx91sD2ruL3QrxbeK7SIRx8E84r6jCxtBWPAxL99lC4tf7MvcySAJJVcyNZ3RMLgxPV/UITeWKsnzyrxTIdAnvbUSswj29q6zk1Mm+1CXTZsHkPyMd6FvNUtAtwsCoh6Nt/wDr1rTwwXFksSKJJo+M4q1HpN5q2liFnWDb61mUc1r3nSQpcTTFy/JAqvqVnPPDBJbxBVx97H0rq7Kx0Y272k8vn3MfJ9M/nXP3V5PNI1vChRF6fSkxlW70lpLVJpHHy9QKpatdRJZq9soJXrxV6xlXbLFPJuJ4xWPNeQwtNaiPAb+Ko8xFLzJ9WtSWkClecdKzmubVrCaF18y4UcU6PFhcFXkIU1h+Irox3iPbfd6GsxmKt9JdRzWkqhWY4ANcnqFwLOY2j8Cuk1exuFY3sSsWAydtcbqFvc3zec4+agLFW7s2kbl9q9ip5rsvA3ijUPC1xBNZ3DSGM5xISe+a5exbcvlTglx0IrY8PoscsgbO3oRVAfdfwh+O9t8XND+wa/NDby2BwCQFJwOua/O/9sj4yXPxa+LR8OWtwJNA0mfbGq8/vFyCc/TFT/EjUJ9B0ue40y8e3aRSpEMhU14Totq6zTXhYySyEsztySTzmuWUjM6tYUhjijUfdULx0pWxGMGqcMzz/ODipmcvywrBgSZ4Bp0ClmyD1pqY6GlX92cikT6DG87eyt92nxKoUg09pGmcADFEnytt70g5hu1F/GmMvkk85FNm+XB6USN5mKCrjmh8/gVG0LWq7XNCzNG2FHFTSHzl+bk+tAESIOuaN2DTxhEyelQ7s8gcetSAj7i+4Hj0pWl8vBPQ9aerhgQOTSGEOTupiuZOuWPnqJEXA78VnLp67lGfrxXS3LDyzGDxWHNHLDcAgblNMHsOFsm0LU0MO35QeKlCDZwOcUkEDNls8UxIZNHhcg5qJPlz2NPmbyyQaWEiTnGaCiNd3YkGpjGzKCWLUkz9BjFM8xo8Acg0mA6TMhAHSlEIbvg0qksMgYNCfMrZOCKYySNBGdp5qGb/AF/yjpT4dxkz1FEsZ3b05oAWRi+0YpJIiqgrxQjfNlutTtAZk+U4oHdEEcbMBnpTnt8kYNPjBjUgnJqNo3Dbs8VQXDy3U8UvI68mmMTu6mpWYqnqaliuV53wwwMGirLKpALLRSA/amPFSPt29KTydjdad95cdfpXMUMjAarENnNMwWNTTLhoNI06XUNQmWztY13NJIcDGK+Sfj9/wUN0nwvaz6R4GVby9JMRuhyFIOMgg0+XqI+pPH3xI8K/CfRpNQ8Q6lbxeWu4Rb13NjnGM+tfnX+0v+3Tr3xkVNC8F+ZomjLlJZ1yjSc+/b8a+evGPivxH8WNakv9b1aa8iZt3kzS7gp9hTVt4LGIAL06GrEUrfw+LOT7RcyG5uGO5mds5NLfKZGG3jHYUJeN9o3E7k9KPtG6QsVyK0sAqO0cYB9Kq+eGuNjDAqxNcGZum0VXkiEkit0xTsA+6uESQRR9e9PKkBearXarHhlGTmp4dzx5PBrQQ2ZwuAeaTYAMrRH82Q1K/wB3I4qWBGvmykjGKbM6rHs6vUxvdqhcfWmRwLnzG55oFciSbYuADmnx71OexqWVQvQCmhwyjtQINwOcio3jDLkdak3fLkdKcjInJpCRUyrfKD81QxyywzbI8kVZa1LXG9Ohq5DCIXDEA5qrDIS02QJDlaniUSAAnjpRMdzY7Um3LADp601uOJpW8I0mWG/imKNE4k+UkdCDjr7V9b6f48i+OHw/j2j/AImFqAsi9fp+lfHs1rIbcqzfIR0zWh8Mfinf/CPxZHcxL52nSsFuLdskMD1IHqB0reMhnvn2G5sJjFJGyqnG4jAp8sa9Qa9a1DTdP+I3g221zRcPFdRiQY5dcjofevI7zTZ9Myk25SDjDdq2TbLTMXUdLCs0qiuT1pZ5QVjfaO/Hau/ZDJbOCc1yetW3lK0ydAcHirGeY3l1e+HtTg1CzkaO6t5BLEykrkj6V9ufs3ftOaL8arWPwx4kSHSvEESBEmkfCynp1Pfr0r4w1jffXmAn7oH8K5TWbO60W9g1DTpmtbmJsrLExVlPqKTfQZ+oXxG+EckVnJPFdrKuPkXdwRjtXhGrabe6LcNDdWzqnO2RlOD9K5f9lH9raSPVk8L/ABEvJ72C5xHbX1w2fLI/vEn6V9afETwla+KPDsMWn3Mdx0ZGRt3y9etZmkZWPib4iaM9qsepWyeY8b88cHjNGkiLxRojXdpbBLmHiRcY6HrXr3xM+GWpaLDZpAqvbzR4bfk/Mf8A9deRaXqUXw91x9Ol2yNM25o+vU1y1afMjshUM+1ulaQpJw/pU+XV/k711fijwGLiNNTshgOodlXgc81zumKdzZGSpxzXk1IOLO6Mky9b4VBuXJq4zt9nOBgVCJjuHAq2Jv3OCKg2uZcWSwyufqKuS4a0KsvcYqXyQyFhx6U6HDKUYZNT5jufQn7PjPqHgW8hgA8+N8jPTpXfaZBf6lC8Fzdb1XgR5rwX4I+JrrTdUfSrZ2VZjlgPyr2+yVrHUDuuPJjbP3m619NhJ80LHiYmLU9SXSb6xs2ns5ULXPIXC55qG3jna4aOd/Lj5+lQ6y1roci3yOtwxbnYcmsDxF4uOrSxPAfKxwyLxnpzXeziN1byDTrpkhUO3Y9azp/t7XTFrgwxOeR0FQ2+qRXNsohh/fjqxFYGtalczMVaQqR/CtZMs1nvLDw/eB7iTeWP8PNZ+q6o91dGaz+SJu/Q1gLGblszljzxmtm1228IT7yetSIxpIbiS682NJJCDyQKmvLNrwLKR5MgGCD1NdGt4LNV8raqmquoaSNSu0cTeWp5POKLIV0cxqFnHNCMnMgHWuYm1K30+cpcR+YM+ma9N1bTdI0tonnuQisOdzV5n4uvrJb2R7aPzkH3SozWUtNgKOo+LLRbOaNICS3AGMGuV065MyyGSMlT0GKvSTHyzJJb5JPYc1ctZUt7YOYBhu23msyjOt44djM0WDn0ras4bODT5blkChQcmmtdQXEQjWLYWPpXJfF7xC3hjw6sUbBI5BhiOvt/WpcrEs8c+IXiZdY8UNBbkm2UkFT3qvawpGpCgBT0Aqjaww3m25T5pG5LGtC1XE2T0rllqyB0EfkgqeCTU6sqtg8ikmjE02c4pv2domznIpXAmkZOCowaYEdl45prLu6Uv2hoUx3qWwEDtGuDw1MaRuvU0jTF2G0fN3qZY9q5PDU0Kw+SZJ4FIGG71AzBRT1jXnHB71FLGXbAPShgSCMtzTf4sE1IFO3FVsCF+uSakYrKc8/dpjSMxEajip3IaPrio7ZljbmgW45YRCM7qkU7j7VHIN2c/hSPIY1ApkleaT/SNo6VaWNWjwRz6miC3XdubkmnXylYTtPPtQMzpI3WTHanxYT5QasafNuGyRc470l1GjbinDdqYIrzW6svPNRQhY1OBTFmkjzv5qSNvMU4FMob5bNzjipVAjX5hmmRs2/b2pJw27k4FIYp+T5h0pHkWRdoHzGmtnoTx2pyw7sMD0oEOkxHalR17NUUSuqr6VJcPuj2gUgZljGBSHcdJH8wPally0JUHaPXNK0nnADO01FJHhcE5pk2Ehhdo9obPvT1Vl4fmlhXy/4qXepPHWmGoNIqsOM05nBP3SKjZR5gqXI3YFADfMjXg80U7y1Xn1ooKP2ma3ubq62xBtvXj0rl/ip8aPCnwN8Mvqut3cckwxstgwDMa+PvF3/BTrVMXtn4d8N+dGxZLe8MoHHTOMZr5M8aeLfFXxS1SXUvE148ySNuWDedq57YzisVEVz1D48/tjeL/j9fT2dtK2k6GjERRW/yF15A3YPNeJRaWkWXKfNIdzH1PrWlahLK3SGOMbU4GeuKjNy0khBAxWumwEarHbMxjO0+goubmSeMIwAX9TUssCbd5WqhmM3GOBT5UAkUYj7fL1o87zCQFwKkZTIAAMVE6svtVCHFcdabUOZCxz0p24454pCuJN8zjvipJCwUYpfLVl3dKbJJ8wGOBxTGxjKu4ANzTpItwHao1AaQnHNWFU4y1AyPC8Aip2hxGMNn2qARiRsE49qnWIRrnPApEsgXPIY5NSIqopJHFPmUN868ionb92cjikTqMDBs7aUxrIw3UQRllLKKm8xIY/n60hirII1+UZoX5vm/Sollz9KmVgfYUxBgEEd6sWNiZTl2xjtUEMP70uOlX4z84aqNCG/DIuwGsLVrUXEHBw1dBNmVjkYFY15HuY/3aYHYfAn9ojWPgvqBtpw9/okx/e2xOSucDK56dK+ovFElp4+sbTXNLwYriISeWpzszzg+9fC2o2cAt8tw+MA969i/Z4+LUugTWvhe5kCWssufMkPAz29q2jID0xmbT2eOYYY1w3ibWjbxzIqluelewfEbw8sVmbu2O4lQw298jNeMzWv9oBmbrnGDXQizlF1KaaFsQ7R15rG1SRol2uN2/tXT6in2FvK24DcdKo6nZLJCCELMo9Kh7lHMx+HG1SS3hiBFxM22ILwc9sfjivuT9mqLxl8MNNjh8Vx3F5aXChvLmYs6DGAeT0xivjzwVqa6P4ssdTvR/o1tJk8ZGPpX3XoPxq8MePLaBtPu084IF8t+MYAHf6UgPR9c+yeMLL9yP3in5UY9K8a+IvwosrySGZrWNbtTgTbQDj611ya1cWknn2hGVOTjGK7jw6LT4lWojkkjtbmP7yswGaBqVj5+htZNJtGtWKuu3ADZrzjUtPk0++kkC4Rzn2r6w8ZfCddNkWfIlRhtG2vMfFnw9e8sXEa7HX7oxzXLXp3R10atnqeOIYvM+Zxup8kgKFe9R3vhe40a4d7xHAB+8c4qjDfILsxg5ryZRaep6ykpbGlHKfLx0qeAEYGOPWqzKV+YdKt2NwgXa3NZ+o7dS9oOuS+FNZS+i4cV7Fpfia28SWXnSSSCcjdwcCvB75hMwIOSDX038O/Dunr4RtriCz8wOg3MOecc17WAdtDzsZayZzlnq0rCSAksgOMtUtjaxW0xlf5j6GuttfDdrcSyukJAHOKl0/R7SaKUvF92vZkzyb32OWkuFYnyj5X+7xTRDG0RJXc3r1rqYdJ0vyJXlOwjoasWlporWe5pay3NEcq2mrdWGQNjdKfb+HXmt0UzACuluNP037PmK4CjPGTWXrC21nYoWu1XPHytQJkF54ZtbOOIyXahj/tVieIo7TTVSVr35cdA1Yviq4ghmhZb1pAf9quE8RPNqV7HFBK0mQAFzQIveLtVGuMYbZjN6c5rCS11O2jVHtvxI6fStzRfB+o2t1HJMuwdexrfmN40gTyN6r0OKykBx11cTRwJGLfcT14qOGeWQrG8G0Z7iu3a3kyF8lS/0qv/AGfK0wJhUH6VkMwvs6eWXaLaFGTx6V80/Gbxl/wk2vf2ZCf3ELYPvzX0P8fPHUXgHwOtnHAPt2oZRJR/Dgf/AF6+RbC0E8jXM0u6dzk5rCbQma1jCLW3VVPQVehj3fMePSoo0VYwoOanXMR2Hn0rDmFYf8wbIqUPuXmm4IHrSedlgpGKOUTJocR8nkVDNHvkLDpTuD8uaQnyztpMQ2NxD8+BmmNcea5Y1Iqh8g9KT5I8gDmpExu07Sw60wy+WvPJqbjZnOKj8tJM5plrYekhdfSoZAqnd1NO8wq20D5cdajkhLyBh0pktA0o6EYpGwxyOtOkA4HQ0QR4bNAD92cEjFNkQSMKSRZC+dvHaovNlWYZX5aYFjeV6VXkmeQnZzzVskMPwqnCxgZj70BYkt22g5GD3qT5O9NWbcOR+NLtDEE0kBBL5YbaMYpnlheRwKtSWsTOPWmamot7P5fvVQFbaAc96bMvmAe1Nhk3RrninmVdvWgZYa1SaAYbHHWq8cAiB2vup0LNICo4WoWjKscE0iY+Y5ZWVtrDin+Z5eWxlfSmrlsZ/OlkG6M4FSxDf9YMgYNDAquO9Pt9vlc8GkkY7qYtRi43c0v2f+JeaSPDOQ3WnGZ4ztHSmWMlO1unNPVWGDT2O4A45NO3HFADGViciingj1zRQMsW8UOn7I4l5Awc80mpXhZlTORVS6kMk25Diopo3kjLFvmFJEWJZJNie9Rw+vU1Gu7ywWpu/cQF60w1Jprh4129ariXcuAMUSb1kAPSnDk8UFPQX5o4yw61EZJJIwW4p4mZVKnpUMbM0hB+7VkrUOSOKQN83zCnMpWTIPFKwDD0pBYRz0C8ClZAwGOtMwFWlALMMUx7jiv7shPv1HarKsbNO2MdBTlV43JzSSbpB1yO4oKegxmJbd3p026WMJ096SFi3BFO8zcxGefSgi5OCVhCLUK+Y3ysKW0WQT/N0q3MwifcKliK6K0PHamSfO3zDNPaTcS5ppbfgikP0FRV24HWpApSIk9KapCdetS/M0Zx900EliyjM0fHTGaseQ233pNMl2Jtx2xTr+8+zoFXhj3qykyrdMyqQDWG0kkkhQmrc00pYsW4qmPvFhxQUVLmMzTcn5RVHUoWiKzRfKyn7y9a1H2tk1DJH5yEdjxV7CPqb4cfEpPHPgWO1ky1xBGImz1AHArm9TsVtbhlU87s15D8KfFP/CF+Idk77bS5OxjX0Bq/hZ/EFvHf2LeZA43blNaxZaODvrIXecLvZTkGq7IPs+HXDdOlbGpv/YH7sfM+eTWHMz6hN8m/5v7o4qxnP3FqqzNEF3IxyRRYadeWdwGsppIXzwQ2MV1jeEZI41uAxZiOAarWUJjul88bW9KAOt0P4p+KPD9rHBJIbuMADa//AOqtSP45am1xGqw/Y5GbAaLPB9a40XTG424+XNW10uMzC4U73HIFUgPrz4UfGOS4sYtL8WXDvPMv+j3Eo4/E9u1emz2NjfW7SrIjI4yrqcg+9fGnhvxFJr8K2V0o3Rjar13ln43vfDcMEEly81vGcbVbkL6CnKPMh3PYNe+GcetaTPLhZouQ2Bz9RXyd8QPAtz8P9cVmdnsJ2/du3XPXFfa/w+8faFrGnWsVrMVllHKzEdfSs74yfA+z+IWmxAyiFI2L/uyAc47V59ekdlGu4vU+N7G5FxEBvXp0zVlY8ZxxXWeK/gTdaCyHQGnuLdOJPO5PoMfrWFfeBvEOm6ebw2ss8Sn5gi8geteX7N3PY9pCWpg3qyxr5hOFB/Ovtj4G+dH8NIS0HyvHw3rx/wDXr4ru74PZeWR83pivt74GXslv8K4JJiWjSP5d30Fexg4OLPLx0ly2RZs82LTKIDz1OKZbatp9pYzGSDJYc4FWW8eWMNvcyTWbEgYDIvBNcc/jmxk0O4FxbtHdNwNo4x2r1WzyqY+a60yWGQ/cB6cVlap/Y8eku7y7ZB2zWVfa9ax6aiqrBm65rm765ttSxuDAYxz0qTZFq8urNrUFJyw9N3/165bWpo9QZEjlfCnnk0y/8tWKRjaF44qta2V1qRZLUD5epNMTKK6Xc3U22HLAeprX0DwlfzXyTAqGjPc1s6D4bv8Ay3begbHXNaNnompQrJOtwo2nGM0hCXkOqbssN2PSoobq6DeY0YXb261oQzXxhw7bjyKpXEktuuHxzUNdxogfU5NzuFCueK0dFspbhZby7lWG2jXe8jnCge9R2Ompf4BYKSeK4n9prUD4e+HP2S31ZdOuCzeZEr7WnXH3R+Nc0pWEfL3xs8cXnxA8fTwGXdp1o+yBP4QRwWHrWCtgm1QpO4DtVHT1862jm2DzT149a2LEs2R39K5ZNsAjhkDDGauMpkxgfMKIZtu5WHNOj3b9wOKyJGRuzSbXGMVMNjSdKVm6kjmoVYqwpiJG2eZxRJCWf5eaa2H5A5pFL7uDU3AcE4wetJHC3JxmkU/Nz1qaO4EfFMGVY2V2ZWOMVTkk2zZQ5QVa1BU+8gwe9ZMlykY8teWJoGatvciUHjin7ic7RVK1uFSLbjmptzhQynimBKy+Zg9aWEFR6U5d3kjAojZWbng0CDzmb5c5PakVAB83WmCNmmLKPlFIyv5hI6UAP3Luz0qKTEkmBzTGikZjnpS+WYpBg1aAsfZWK4HApqwbSAan3MVxnmhIy/vU31AjjVRcB2+6Ko6ncpNIQhz7VJqji1XDHk/w1krbncJFPXmqA0Y4QIQcZGKg4GcVNDM6rt/hpDCPMzRcBiyi2+8dobgE+tOjyGJY5BqPUtPXUI4wSV2MG4PpT0USZA61IDlanDjvUbL5PNSqu9cg0ihFQY4pCc5A60iNt60xn/eZFBMh4by+3NP27ck1FI3y571JHMJI8GmhIiMnzfLUiqWxu6U6ONIzkDNDyKc8VZT2EmaNMDNFMEayNnGaKLGfMSSqmMoKjjkO055p0TDbionDLk9qk00QyT5uBUXKHPQ1I0oRsY+akaZduWHNAmxzEzY9cVC0bRnOealXDqSDioyx4zyKCdyJpPXmnD7vHeldlzgCopGPAApjQc5OW5p0mUCk8iovL2sCTU+7LBcZFLqULGomyCOKYi+WDQzHkLTVjfvViHeZ5mQDzUSt5LEMaF3eZgcjvT2hV2Ht1oEw8z+7zmpI0WN896i+6cKc81OSWwRQKw1mbcdpwaI4ZH/1jZpytufFOEm1qljexEzeXxjin43KCtBAkY9qkUeWPqKRNwWDzF3d6niXavPT0qH5t3ynA9KtW0nIDDNBJLGpWMMvHrUF8yyYarFwuY8KcVRuF/d46YqkUihtZpT/AHarzsN5VauqwbjvVO4XbITTKRWKbQQeamtbZnjOOBUSq0xI79K3tKtVZo1fjHWrsGpiXmntNbncuGHI4rt/hn8bLzwRbyaZqIee1kYBTn7g5pt1YRzNhAMAVlzeDBqrHAwc+laxKPX11TRvF2LiK4T1KtXWae3hPS9NBmkjV15JzXznZeBb7T5T5d00f0J/xrQ/4RO7nBEl47D0yTVlHsHiDx1oN1IsWmSpLIONq1zVyouplcJh6xfDPhe2s+SP3g/irrI7ULjA5plEFrYiMkvzmrmn6dIrFg3y+9S29ozNljxWtbw+WoXr7U0Ip2cf9mXSTF9q55ArWbXLbUmAwxYHGRUbaeJk/eDINNksBY7fLTvmrEa1xJe2Nuk9pcPAexVsEflXt37P3iPXfG90bSbUGlNug8yORicrnAP15rxmG8S6sPJZQG96k8G+K7/4Z+IotXs3IXcBKgzhlz0ocVJWGj631nQZtFjfcu5W9q5yXzFtBEIFCSdiM8d61pv2gPAPiDSLaZtSzdbFM0bIRhsc9feuR8YfHjwkZLe10Vft9z0dVUrtriVF3NHUa0M34gfDXQNQ0iLfbLa3W4HMI2g1Z03xVqXhbw7b6XZhDbRjAyuc1WutebxJCs0yG22/dUnORWbc4kUfvtu2u+MeXYxlJy3LLeJrmaEwlMMxyeOKpahdGSNECcDmoOOuc+9ErHy8qKsdrGbeSSzSjCgKp6VVuriXyRGAF9wKstIfMO44qL7JJeyDnauaARmtZtcLjeFNdR4f8LmGwaRLjaze9XLfwdayWgc3Kq+fWr8mhtZW4RLsMvsaAKsVncWcZVZ8g+9QPHOrYEhKk5IBp81h5f8Ay8sx9M1EzbR98/jRcZJPceSBtc/nUdlYS65dqvPl561LYaO+oTLj7nUnrXo2i6VZafbxqIyRxnjmspysBD4f8C2UOJZnIRRklm4r8+P2mviNN8Sfild6bbIwstMlNuOhyVJGa+4v2pPidpXwx+DeooZSmrahEbe3RCdyll4PHof5V+a3g9ZDHNezEyzzvuLtyTnvn65rhlIRr20IgVVAw1T2MZt7p5H5zU3k4kDmnTR+ZtKmsWySSSTzmG1cYpoUqwJqSJPLAJpkpOQe1QIk5bjGKbbokjHccUbztJxio2jLDI4o1ARpPKm2gZFTwpuO6mq6kcjmnRvspgEaqZCSKjICyM3alkYx/N2p0JSZDk0wK0u2VCBWcbHzZCwHNXI/3kzKvFOcrBx/FSAzNpjYhhU6S5jA3fhVuS3WaLp81Y8wbTW+YEgmrsI2rORmwM5HpT12ec244rGtb9lkDc7TWi0YkhLA8nvSYyTeykqvHNPDe/NV428tRu/OpZmAjDDmkK45pgvHemzyLJtx1qOMjGepzVqOFD1HPrVDJrWISbVz81Vtau20XGACxHFSrMLN95I9q5rUr+fVNSJxuiHFADUM+oXRuJ2J9Aa0lhCrTfLYBCeFqT/WdOlArCSv+7AA5pI2LR5akOFfb1qWNVXqfwqSrjFuA2RUbRshJjPNPkhWQfL8ppqzBV2jlqBC7GbmQ5FPhYNwvFMjLbSWFRqv74Ece1A7kjRsGIzmk3CNsYyam8tuW7VBu/eZI470CZKSD94cUq+X/CMUixibocCo2hKtgGhEomHy0nC8kU7B4FPkkCx7SOasohBzyKKfCo7iiqCxXjUgipmtScHOaqFuMA4pyyMv8Walky3JHh8tSSMmq6qGyMVGszPMQxOKstINmEXmkFnYYMDjpUbMfMHcU3k5PelQFhzVDQk0y54FNUZ+YijyxuyetEnPTgUgEEW5sscCl3fvOOBUO11Y8nFOjDdSOKQB0bOeKkZvl61GWB4FKPlwDyKaDUaZGT7vB70favlII5PenNHvbPQVL5USrkjNUVoRWe3ed3NTlSMntVf7NIzb4x8lWl+7g0DFRlVc96b9/rS7RSK2TgVLFIRT2HWp44WZdxNMhXbJgirEa7cjtSM7EccLyMT0FXbOMHO4dKZGwVcZxT5PlAIPFUPlIbqYRzc/dFZ89wrsSDxVrUp1WHB+8azMBVGV5pgTb0Vc5zVa8bKhhSsoVdzcKKgaUyZOPlHQUAPhdMqDxzXT2di8uxoxx3rlIUDzIh/iIr1nwfYxi32Ou75eCatGiKum6IZgADuJPNax0WRU2xLtxW7Y6b+7Hlx7Xz6Vel0uZdnyHnrWyGcz9mxFtdcEfxUW8aW4z1rrG0tNuzbSLoUByp5XHWqGkY2nwCb5ugzVv7O6sMdPWrg0wLMqq21RWotmv2cDvVIop2UCyLgnkVp2tp8wJ6dqqWejyrKSGwDzzW1a2nlpywamA2axfaGVsBarpDJdZbdtxxV9ZGb5ME0z7K7yBQpVaLisUbizNuocSndUq3UbwrFN8zt0NTzWYeYRsflrO/s17jUlihJY56LTuxFq48CzX1vm153dgxr0b4c/DGx0PT1u79/O1HB+VugqfwrpQ0ezWScsXx91q05tQDtgPt7dcVYh1194hm4HTFQyRiRA3O0UTaXJL84m69s1J5M0UIjOX+nNaCsVm2qAO1P3COOn+bEcRNGwb6Vbs7OGST5vuUhmb5MNwwzjNatrplpJsjaURj61dt9LsPtBIPbNOksLUSEsTtqWAyTS7JmIW5JK/wB01VlhhjkwZGYemasfZ7VGYwBmaorWwF5cYVCWpgQG3jzujViTUsGkrdSYbOTWwulzAhSFRa3/AA74fc3SP5ZljHVgOKlyKRY8K6HFaxp+78w98iu3tbO38xN0CxovJJ6cVNY6e0cXmJCBgcVw/wC0F8U7H4S/CXV9TvFIup4mtoFUc73BUH8yK5JybEz4h/bq+I2meKPidDoWjOs1pbrtlfccCTJ7fSvGtKjisbVbdOdvpWD4bjbWru41K/LT3Mj7i78knHWulitwkm8dT7VySJZJvfzOfu1ZEfyhgeKYx3LjFEMezqc5pEXHTMQvFEfyrknNMkhkkfJ4SgRtnp8tLqFyVnDA44pnnFVIFLtJ6dKPKHrV2GOjkDIcjmo1yrZ7UfaFWTywOalmhZVXI4NS+wEbSb2wRxTWVUAxQ+Ex3pp+cZHWgkSGMRyBxxTLsqJQxHJNG4hTupkLG6UsR900ySXcduQKgvo1ubchl+apNzseBgUK4bhhzmmIoR2PkxgEZFPkzEAB0qxdShZQo6UjeW2OefShlIX5Z0VCMGpGxgKRwKW3ZNxGMGhQzSMf4akQDEOWH3T2qYESR8HHvTY4QgIPOao6pIYYSinaaZSMzxBeMo2RnPqaboMiiE8fMfWnafYrNGzzHcT61MkYtpl2L8tMZZRjtO/jmmcq2QeKmkZXYAL1qBkdm2jgUDFZSzbl6+lO2kHJ60seYevNNlY4OOtJkknVdvSolhVOc5NPjyUyevpTPOO08VJRIq7lzSeVuXIqOKZgCCPpUkW5lIP4VQCrnbycCnrGrIWJAAqvcZBxyBT3j8yNVGQO9AEmd3K8CmQ/vCfWpVURgADtUX+rY7aQhrsQcDrmp0HIzSxKkakkZZqI1BbmmMRl+ainSZjbgZ/DNFUBm7d/Ip0Khm+btQsybcHg0qqAvBzTJtzbkLKfO+UZFW4HWJTuGeKiWZY0Ixl6SCbdneKRRHnc5I6U4rhTjrTJGAU7RTY5jtII5ovYkbu2H5qWWXEeU5p20Opz1qNcK2AKAAyYjDdT6UW94sm5GXHpUc5VVwPvZ6U6OAKoYcE80wGrCck9Oal8sKuSacoO3nmo2+bjNNIdxFzIdo4FK6Y+TNMWRlYDtT2VWuFOaYy3HcPbx7EGajMjN8zcVIyFZNvTimtGWXGaQ7iK26n28O2XcelJHGFXHWpEYo3JqWZtsRwfO3DpU20MRmiPaxJbkUQkPLsHNMETNbqqjBpzMNuOtIybWwaY60yzOu5VLDcOagIaTnP6VZvFjYbf46q7HCkZxQCQlxH5iA4z7VWuJzEqjbTlM0b4PIpy/wCkSAEUCRoWtmsnk8fMx4r2bwj4fmlhgCEYA54rzDRbdJriBQw3Kele7+HbNYYYCJNrMOa2iBp2emySTYRAqrwauLYzRsSybh2rTTTfJhADks3NXrfSWdUDNzWpaOTuLG5Clxbkj1xUlnodxdQkrHtY9sV6EluFURYBGKSGzdbjdGQuD0plHnd54Zuygijt3U92xWjZ6DPHCsfks5Uc8V6RbwsyszhT6cU1vMhj3bVAY46CgDh4tLnkVgIivGKit9DuxkFe9d5NbgxqEYLnqQKZJZoY9qt83rVJDOXh8O3AIJXA9asTaPKkeRjj2rpI7VlgKlsntVTa3CsCOeRQM4TULV7VXkPLH2rqvhL4RuLm4k1SS3LxgfLuFGpaXFdzR26nmRsenWvYdM8NXPhzw3bQ2wHKgnFNCZh3Ftvusy2zeUOuBxVq30TS775iuyt0X72diRcW4y3dqxrq+0+1tT83lyyda0RJnSeH4BK7RzhlXoM1m29leQzSTBfMxwBVu3hl1S6itNOLSTzHAUe5r0QfCufTbeAXl3iRkDOvofTrQ5KIWZ5ppqTytIZbTn1IrVtfsy27iaMrL2Fd7/wj6aaoVNsg9TXI+KBDHdxgKqufTpUqopFWKG22hi3BDvNV8mUBRHn8KsmGRtoEefwqxZ28qzZddq02wsR2tqVxmML+FXLPS5I5CYwVLelX4bbzGClsVt2dnjbsG4j3rJyCxRs9Dm8xN2WJ4wa62xsbjT49hCoOmKZZ28jyIr/Lk4z6Vux6C003/H2HPZazUrjJLe3uvshIdAMZ2+uOa/OH9vD4t6h8QPH1t4Mij8m200lZAP4zkEGvtL46ePP+FV+EdU1ya+VPs8exUyCSx44GfevypXxBe+J/FV1rl8/nX13IzM7enb9MVhIll7S7P+yVWAjhfTvWhIxkwqDg1L+7bLMQTjk0saqw3KawZLHKPKQKxzSeZg4HSgxs3zdqYqEye1SZljzmVRnmljulZSrCo2b5gKay7WHFMLCykrnHSmwsZFJ61IoBBzTV/dZxwKtIYRxqLgNjn0qxcT+Y20dKor5vnF/4ad5waTHekwHTR7eT3psaj8aWZjINtR/w4FIB7APlS2KjhjNhG5J3A81A0LOx+bFWIsPCVJ3UEMZDdfagSowucUkimMlu1NgjWBSi8c5qSbLR7etAyLzFMRJ5J71AsODvNOZGj4xgfSpVBZQDwBQMWIDdnNStNtwFGaYqxxtgfMTUkP8AETwPemSx/meVGHc4rHuM6lcZB+XNJ4g1FNqQxPlyeQKlt/3duAOPegERSKbVtu04qdXWVQCu00rM0jr6U6RdrVaLI4lHnEZpGBWY4NN2nzc9KdtKtuNMPMdyuM0FlXkc0iuJjzwKFXDEDvUsSFYj6UcBOaHC9+KPlKioLBcbQAKkYNGocDioSG24T1qWGQqCpOfWgjW4xpftB5Wpfu9Kj5HIGBT85UVSKEYbjmk3HoBTx1pPl3ZBpALuG3BHNEalu2KD6npStJ5K+1ND0JEZ24oqSGRWQFTRVWAxlVJKepTovWmR5qJfmlPrSId0OkVy3tSquOBT+W6037p60FXGMwVsGmMuHyOakkjVsEnmoyzKwXHNIW4ibm6CkCFXLMalYsq8cVX+eRsHpQOw5sbtxGaGkPlkinBW8rlaYzFY9oGapCsRQSSyK2KlhXOS9SQ5ji6YNNVfMVscGmFhCwLHAp0fkKMk/NTFYRg7utT29vGzZbmmxXFDlmBz+NPWQL15okRf4aNqgYoAEcp75pW3NktxTI22tUvmFmwelJoViW3AePFPW3C/MnD0xs8BOKk2sxGeKSGkWIEJX5uTVW+/d/c61aVcKSDn1qjJdB8jHSmUZ5jk3Fyeacqk8uae0m77pzVc7vM3E4WkMbcSEDjml0b/AEyYoeMGmzOq/TvW/wCGdEW6YSKQOM/WqjruI3PBWnQya0iNnIr3TS7VFuIUwSBXl3hfTVj1SMxxEvnaTXtlhZ+TEu4Dee9axGbcNuZGUAcAVeiXy+etR2aPDCAerVaWOXbtUZJrUolt4fMXexwauGzSO13hsMarLFNlYwhJ9KvRSFx5RjPAplD44YVhXMvP0p1xbLcAIrgLTFiy25oyFFTKIYsuisxPrTEVo9PXlSckU6C18pySM1ZWOSYfKu01Zjs5GX1NMaKjE7s7MqOelV5GN1L5mzHbpW1JZyJCU6Mfes+6jeCHaBnnrQxkngzwxb6/4gVbqTykT5t3r7V6J4hvJ9PuEt7aYSW8a7QK5bwjpsbafcXRl8txwOearTWGoybpEmZ0JqiWSa54ouJtsJtyVHVsVShEGrwySTW+xk4DH/PtV1dOv1hDyQbh64zWu80EWguktusUm0nJXBqkI3f2e/CKanrV5qPm/v4cqit0xXd+JZZ5NSkt3X51OOT16Vyn7OetWGn3l5ZzXSJdTZMayHGcjtXr7fDy41CZ7yWRsl8qM8muOtds1ijz7T/Ceta9rFtYWts7+aeZAMqo9Se1N+L3wak+HEdnq06/b0YYZeyse9e8fDOa78OahNayw7reQZ8zHIxn/GvL/wBobx/ceKNSTRLV0Gn25+dl+8xFZR5rgzxa1mlulDeWqZ9KuW2nm4mxKcD9Kv6daxLhCM1sx2e5CsUJJHciuly0Ay4NLC/djLf7XWt/T7YWsY3qAfpTdPhuI2xJhF/u1swwpIRuAas7ksS1jjbLkcCrsF1pdraXEtxP82zjdxjmlkEYKRLH1xnbXmX7QvxW8L/D/wALTWeopJDPNGdpAAJJ7VJJ8QftyfFzTvFniu38PaRctdpbsfPwfk56Y55xivDdIs447SABcYXj2rPWFdf8RalfNGyo87Mmeu0k4rbWNo/lXgDis5EssKiKSrZxQ0Pl8xn5T2qLzH3KhHFW44WONvIrIQsMxQYPSljUsxOMLTzh8IRhhT5HIwnSpsIhVkWXGfwp1xKvB6VDHp0jXG8nK1NcxopAYdKpARqzN06Uit82GGaHkOwiMc0RuVj+YfNTAlb7vFV1CLlifmqVZCeM1E1vySeaQEUgaQ56elFn8sp3de1S+Yq8dKjlZFXd3qkJitHuck0RssOQaVZNy+lRTKOPWhisNkIZiR1qSGReh4NNjjG3JNR+YqtjHFSOxLeSNxjpSwxmSLIPHelhZZAeMjvSR3Chyg+WgRAwaOY7eanuruNYQvAkxjGaWeeKxj8yXjPSsQxnUbzep+SmiRI9PjkuhLtLPmtho45I8YwR1qK2RrRsDmpZmRmGODVDIRwcLTJWZWBzViPaOF5qOT5mwRTuUhk37xlcDFJIpkjwOKViF4pc4X2qeYvyIEj8sdc1JGhGT+VRqxZyB92nrJmTaKDNFeSObzCeq1OIwseO9SyOyrgc1GZGWM5qWUKG8rGakj2+Q0neoS2+MHrSx5PykYXFBPUmhmE0PTGKRmHpimRpt4Wp/szbQRz7UFka/N7U1Yv3nWnNHtPoaVATjFBLRIbd94I+7Szw7lx2qR2kwNpyPSjzlcY6Gi4whRI0AFFDZGCKKrmEYy/KuaPlflRtNJ6jrSxoWPHGKSB6i7W2be9R7SrBc7vepfmZivSq8W6OQqxzzVBYkWPa2WPFN84SSEdKfI+7AFN2BWyentTJW42SX5cYzVdrhuAo5FTyTCMYApPLAXfjk0rFlWS5uGyvQVPCx2ZI5oZfMX0NJCxQEMKoQ+OYyMVxUkcYjbNQq7KxbHFI8p6ikAsiiRs44qVV2qCOBUEUgEmDzVlssuAMU9SbCrj6mmxrtyWPy0ioxxxT1wMqw+tMYgZTyh3VN5ZbFM2hFwnAqxEPlpBck8srjmpWkCrjvVZmJOM81et4k8vL9aBvYi8vbCXY8Vmq6NnFXryQbdo6Vm5SND2Oc0E6kLI6sSn3akkbcoDrxS7hNhV4NSNGVXDUykVJLZLh1jU/erufDNk+mwqB83FcPH810iDrnivYvCOitNZoz4LYFNaFnYfDyEQxyTyopbd8uRXewSmWRQB15rF0HRlWKPaMrnJxXb2NnHFtDJk1rEZYsm3Mu5ScDtV3ztuXUEAetWbONbfCrHu3VfaxW+dIVj2KT8xxWgijbeccXSMv41aj87y2uWVQ/pWpLpVtFiBTgKKdDpomk2BuAOhoK1Kv71olbao3DpUflzSfLjaPYVsDSWeX/WAKvAFW4bWCNsyfMB6UxmdY6WZypZiB7VsRaXBCQFLNV2xW3dvkjIWrrMrcBQMU7iMO+09G+ZVwayLm2KyKpX5Sa39VZ1hLIwDVzGl6gbjXIUuWym8ZA+tSB6AfCtodBiNs/lyty2TVZvD97Z242OJPYV0LXWn3kiW1rOCBx0xRqOmXkcifZ5BIB0GadwMFo9SiiVJLZlU98VJq1ql1YpFNb85B4HNb6/2h5iJcRA4q0yyS3ioIVYAdcU+YaPItQ0E2+tWk2n74J4WDZXIJOa9dtfin4xjhiikRAiKFDFDn605tPabdNHbDMfJYgZqYapPJb4a3+XHBxzWctTQivviJ4g1W3MIlNv2Zo8gkelUbOyViGlLSOTks5ya1be1bgGPBPNSyaddswMafKvXOKaJZDDaov3Ihn6UTQz22XLbAfepW0+6Vd7yqvP3aaqkKVmJkJPr0pMRGkbzMpALZrahjliAxD9aZp6XH/LKNUXsTg1ox2WoMhZmXnp0rK4E2lyEyFzECygsBivzP/by+Kg+IHxDg0K0VVexl/e7OvGRiv0B+NXief4X/AAr1bXWmRZkhYRjcM7tvFfjsmvXPijxNqWt6g5ee5neUMfQnNS2SzSUfZIxtXG0AdOTxVmONmh8wgjPNMj/eEN1B9asyXB2AKPl9KykyGEaeYKmSbyl4HNQbvTipGUtj3qRBGd028nBp0h3OeeabtC8HrUfKtkc0CuSr5207WwBTPJlk+Z2BFO+bGQciiFjzk9e1MYqodvHWoZHI4PJpzyMudvFRqd3LDmnZgMF0qttzzVhnXyx81V5lRugwajEPmLySDSsBNHCJDuJzTpREE5FEKiNMZzUW1mY5Hy9qYvUduRVz09KrSZl5pPm3FT2peVGMUhjwwjj9agXMq5UVYjbnaR1qeONYSVA4NVYmRDZMI1YtyaWS3jlUyD5WqIq0Vx7VFeXGxjt646VNgM/ULj+0JfKJ+VO3armm27RxhlGM9Kr6fabtzP8AeatNCQoReAvSmVYZ+/WUeaAFNWZLUMoK8NTzIskY3nJFMS57DtSYrFZVe3kIoZstz1pZA0kmQaay8+9aDK9x8rA96kiyy806ZA2M8mhRhfTFZvcCFZB5hXFSIqrkkc0isrg44b1o+8OeKLgIkm5jRKpkUYo2hV2jv1qLbKvQ5FIBx3xx7RUkanaATk01WYY3U4wnzA4bigBu6RZvQVM0sjcK2KOrU77rDimMZlujcmnqpVT61KWRl6fNUaybJAOtIBzM0cYH8RpFt9qh93PpVhmWTHHOKg2ndntVIQ7zsLiioXILelFLQNDLG8PTW3pKDuwDUit+84okj8xtx60hBM525XrTLdTIuWPNPUAEZ6Uu4bsLTGNZd2RTI2KqQ3Ip7Lt5DU3OKokjaRZIzxzTFY9z+FSlgmWI4qPHmncvSqQCNJjgU9f3i+9PMI289ajX5GwKBkUxdGCjpUzqkcOepqVlVlJJG4VV8zcpB5piCPa0gxyaufMvFVrfG48YI71dVDMNw6igkgaaSM8c09cNyw5qRWIYgjpTWzNJxwB7VLYDmPy4FKzFVUA806NGdST0FMjjDSZHajURdhjVtvdqfLMYmwelJb4XPrQqpOzCQ4NMoiuJUWMk9e1Ufs/mRlycL2qSWHYxVjuGadw8ewcCgsWaGNLVWjGH9aqXUrLH5meAOasniMoarXCj7O2egp3EWPC9p/amrQADqea9+8M2a2cixD5q8s+Huim4j+1L8mOBXqei3K2KiQBppV49ardmh6Ro6mNlQDFdhpukzTzLztT3rjPC1rd6tdRPJ+5VhkLXrGk6K0LBZHJcjjmtbgO0nQXF15jEMi101jpv3pVUbfpUlpoqxxqm8/N1rSGkmFVijmwPSjmKRkx28KSM80Jf8KSCzgQNJsYbj6VuTWLqyx5yO9WmhUKq7AQKFIZhLDaxrkKzE+1N2xdox+NX7pnjm2JEu2q0tu7qGGF9aoQ1Y2UcYUUvy7T82TSrbfKM7mPtT2t5IMEQsfXimSYGtrIo4ztNa3wb0jS7zxDcNqNuZPL6Fhx0pL+ZpEP+jsQB3Fdj8M/s1rot/LJZ4klYFZNuD0PegouN4T0o6xNcWshjDEnZ6VFb2E02oN5T5RegJrVtYbYpJIJf3jL0z0qp/ZjxR+ZDcbCfei4DVjvMSSnBVepq1DDOtsJyMA9DUa6VdPDt+2fI3UZqxDpt0xS3WfMajPLcUDLFrHdeRhyFDc8VFdNM06xpjaMZOBTk0+eVtv2pRt/2qIdMTy5GnvcNnAANQyrlmzszcbnEqqV9xStaSmM+ZdqoPYYpI7O3tYApuOep5pskdlI+fMYgD1oRJSuESD/lr5lVm3St8uFNS3kkDMVhVj9aDbqqxNnJJ5ValsCzbafI6jdd4z0UCti38pruCJ7j5Y8E81Xt2sYl8x0fAGK5v4keLND+H/gHWde1CfyNkLrE54yxU7f1rMk+Hf8AgoB8a5Ne8USeDtIvJFsbWTFzs6GRT0/KvlnR9PSGBGK/NinX2q3njzxlq+u3LvIl1O0uWOQc1r7EVV7Y4qGxCWw2rmrCyqykFeaXYFUEdKnt4Vk5JAqLMTKqnEb8dqfHJuiX1qSTbGxHUUnCrkUcrJEkPTPWpDt8sY4NQt2o+9RYlkjcDA9KiGYxnuadHIIic80jZfkcCncZGu5n+bpT7yHcoKnGPSk3M3tinKSwOTVodynHlH5Oae0h3ccU+S3Vm3DhhScKfm60EoFYqSWPFRfaPMYqfu0k0eH3ZyKf5aPz0qfINyFGZW6fjVhbhW+UjmkY7+EPSoVzu560yiWRiyk4wKs2sw2htufrUKAs20/dqW4CWcO7tSYmriardRxx7goU1iRBprrzjytJcXn9pSBV+6OKvxoDEI0HNUARxhmyoxVhtkWDjJNLHbFV5NN8tdxB5NIog8lmYkHg1KsOzBJxUy4AxioyvcmlYQxsbuDSghm5obEjccVE2FbFUAkv+s46Uzq2Ooqd0CJvzTI41ZiTwKiQEJjJOFOBT9oibFNkUu2FOBTmY4AqBXELjsKi+aM7u1SBVjyCetK3TpTGIq+ZyelOK/LwaiUNG+eop+G6jpQA5YzjOead8zMKapLHBqT8apAOlj43j8qZFeI7YKEGnDcxx2qaGNecDJoasALyC3ai3xJu5pQOqHgUR2Udvlg5J9DU3JF8lGJJwKKR4w3U4ooEc+zBD71NGQUyaiZQWxQv3gvanYZLxzzTPL25bNSMg3KKUgbSMUxlVjuwAacqnqTUfkYkJzUki8daBDLh/wB3iooVKY549amYZhIPNBTFuccVQh6sG75ppHzcdarpMY4zxmnwtuUt3pjW4/7NyWZqZ5aq+QOKkZi69cYqOQkRgUDe5dUIV4HWhiYx8nFRwfcHepF60Ej1YOmejUwuyR4H3j3p0jbSAKbL+7X3pPcRLHG6x5J470sbddo+tOsT5sPNPiUK2McZprYY+BtvJFRzQrI2Q1Onk2kqBio4Y8qzE0DIuc4zmmhsNUkaDcalW3VcmpuC3IFj8zJzjiqVxby3EiQg7Q561fZP3bEHGKksIRdXUKscYPamWei+FLUaHparIccV1fhdmuLzcvEec5rmdQgA01VDHAUV13w5tRJborMeetUhnqHhl086Nnl+bIAANexaNl5omA34Ary3QNOt7e4iIQsR6mvX/Dd9syvlKcL1qy0b0DCWYfLgCtG1tVmm3k421HpsweFmKLmr1vjb0xmgZG1n5kxYOM+lRSWbhSzSKorTaFY1yBzVW7jDoUJ4pgYU0Q3H593uDUceF6gtU+0ecE7CrdvGGbH9KtCEs4WddwUH61r21vLdKSwUBRge9Mg08Z4fGfQVoyaOIdhWZgD2x/8AXp3BHOahbyrIsWwfOwGAK9EW3isfDNnYLAFkYDc23B6muMZmXxNbRZztOQT/AJ966o6xPLfAy7ZAgIxj0p3KsNuNMt7UxRkZZjyw7U6bTbCRliMjqpOMg8VJb600l05khVxjO0n/AOtWpp0cF3HI7wDpnGaCuhjf2BZw3BRbpiuOu7NTQabBas7fasxAepzV2ysYVjMhUsXJ79KszaZa/wBnqwiIZ25O6lewjn2t7aHdIJiQ3uf8Ki8mykkGXJbr1rcutHtrWZEVNykZwSazZkt4Zi6243fWjcViu11bW+7MbSoPekj1SKa3P2exYf7RWp/tyKflt1H6/wBKiub+RoSihY0PUKKSAyllBlZmXb9K2NLWOOPzPJ8xs8cVnWMYknAYZrqLdAskSKAAT6VMhFW9u0aMW5tikj8g449a+B/+CgnxttNZsU8A6bu+0W8im4weNwbIH5V9ueMvEMmm3V1diJZPs0JZIycDJU1+PfjrWpfiB8Y9e1W8Xy3mmLGMNuAwAOvHpWRA3RLVbDS1jU4Yj5quwwBlPOe9CxhY9o6CpY8BSMVDEQpDI02OdlTHMbYU0+GY7itP8tVVmxk1QMiEe5uacNzNhBkU2NjIxHSrEdwbd9ijIoJGsvltyKbOqJGCD81P+1GWQqRz61WuIhI3JpbiFT5uv504uGwo4pq/KuMVF0XNZiFLMsntT+ox3qKOQtkEUMfLJIqriY2Z/JxzzTUTzMMzcUqMLrIZelQSRgZAOBVFR2H3H3wAcrTQvntgcCmRDc2M8VZXEHIGc03sSR7Tbt0zTZF8xcr96pXbctSRKu0HHNZ81ixkcjRqAeTiqusagjwiJfmc8VothEdsZOKx7a3VpZHPJJp7gNsbQW6jj5jzV+MtDyBg0iHaM96ePmwTViJVkZlyTQjLuP60qqGwKkaBY1yKh7jI5M87etNSP5cMeaVm2YPWkVRN83Q0guRN8jHnmm8v25pxjDTBTUkn7n7tO4rlaS3lbqflpoB3bBxVj7QxwKZtCtv71QyCRip2jrSqQOD1ppbdITS7snpipaJBkDNk09cd+aUL5y46UxV2L61JRCzP5uP4aurGdoxVSR8r05qdZGVVGaAFZNtPjUMmaXaFweuaj5jY85B7VQE0WTSbmiY4ot3znipJl+XPemwIxMzSAEU//WNyNuO+aS3bPJFSTr8hqNCRjKZG4PFFNhXC9aKAP//Z)**

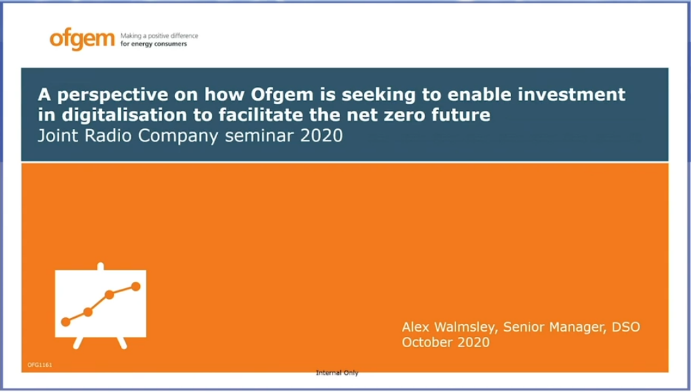
# It was a privilege to deliver this years’ JRC Annual Seminar as a virtual event for the first time and it was reassuring to see the progress that has been made by both Policy Makers and Industry to deliver upon the ‘Net Zero’ objective. It was noteworthy to see the alignment between the drive towards Digitalisation and Net Zero in particular the increasing role of enhanced Operational Telecommunications capability in enabling a ‘Net Zero’ future which is endorsed by the recent Government announcement - *The ten point plan for a green industrial revolution*. At JRC we look forward to working with Government and Industry to enable these objectives and particularly welcomed the contribution from the Irish regulator who outlined the importance of enabling ‘Spectrum Access’ to facilitate the ‘Smart Grid’ future.

At the Joint Radio Company’s Annual Seminar, we saw the membership discuss the latest developments on both Policy and Operational technology to facilitate the ‘Net Zero Agenda’. The timing could not have been more relevant with the release of the UK governments ten-point plan. Recognising that Utility communication systems have a key role to play in enabling the ‘Net Zero Agenda’, we also saw how there are key challenges to building an Energy system that leverages low carbon assets. Furthermore, the withdrawal of PSTN, as well as limited private industrial wireless solutions further complicates the development of a connected and robust smart grid. Whilst developments associated with 5G are gathering momentum and will over time offer increased industrial relevance, the immediate priority for Mobile Operators is improved download speeds doe consumers. The role of the communications regulator as an innovator for modern energy systems is clearly seen by the activities of the Commission for Communications Regulation in the republic of Ireland. Whilst the challenges for DNOs associated with the increasing amount of connected Distributed Energy Resources is provided by WPD. Addressing Electric Vehicles and zero carbon Domestic Heat will be and is a huge challenge. Finally, the input from UK Policy makers was key to understanding the initiatives underway to facilitate the transition to a low carbon future. Dinker Bhardwaj of BEIS advised on Government policy developments specific to Energy Market Data and the role of digitalisation in facilitating market developments. In summary, the importance of enhanced Operational Telecommunications capability in support of Net-Zero has never been greater.

[](https://www.youtube.com/watch?v=HyGi1pJcdYQ)

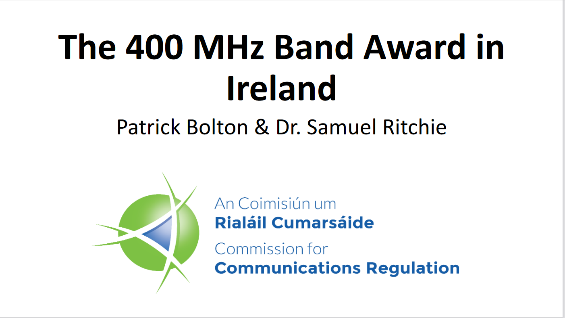
**The Importance of Public and Private Collaboration to enable Digitalisations** [**[Presentation]**](https://www.jrc.co.uk/assets/files/BEIS_Smart%20Energy%20Data%20Policy%20presentation_JRC%20annual%20seminar_Oct20.pdf)

To ensure stable and efficient future energy supplies there is a significant focus on the digitalisation of energy networks to address the increasingly dynamic nature of system operation and energy flows. In light of this there is an expectation that the exchange of operational data across the energy networks and between networks assets will need to be enhanced to facilitate / support the net zero carbon ambitions of Government. Dinker’sHis presentation addressed the Modernising Energy Data (MED) programme as it aligns to the specific outcomes being targeted by Government to ensure that Data can become accessible and exploitable emphasising the range of initiatives and activities being delivered on a collaborative basis across Government & Ofgem. Furthermore, he noted that Digitalisation of the Energy sector is a range of interdependent activities that will be dependent on Public / Private collaboration for success.

[](https://www.youtube.com/watch?v=_KXXsoJWWjs)**Funding the Digitalisation of the UK Energy System** [**[** **Presentation]**](https://www.jrc.co.uk/assets/files/JRC_seminar_slides_Ofgem%20(002).pdf)

Alex Walmsley provided Ofgem’s perspective on how they are exploring investments to enable digitalisation to facilitate the net zero future. In so doing they are seeking to address the Industry transition from large scale energy generation to distributed renewables, whilst ensuring that customer expectations of a reliable and resilient service are assured in the context of GD2 / ED2 funding provision. Ofgem noted the importance of working with Industry and Network Operators to ensure appropriately targeted policy interventions Alex emphasised the role of innovation funding in addressing the Net Zero challenge with an emphasis on Cross Vector Projects and Whole System Initiatives. In particular Alex noted the recent consultation where Ofgem requested Industry input on the future need for greater visibility and control of Distributed Energy Resources in order to avoid systems outages, e.g. August 2019, and assure the future operational integrity of the networks.

It was great to acknowledge a clear alignment between the priority initiatives being targeted by Government and the regulatory framework under development and being targeted by Ofgem.

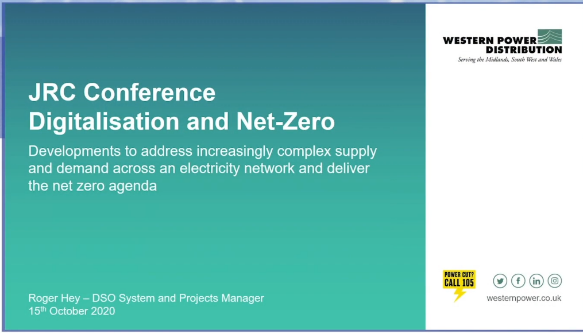
[](https://www.youtube.com/watch?v=Ag_4H6Rmau4)***A Regulatory Intervention to facilitate Smart Grid developments – An Irish Perspective*** [**[** **Presentation]**](https://www.jrc.co.uk/assets/files/ComReg%20-%20The%20400%20MHz%20Band%20Award%20in%20Ireland.pdf)

***(RT – 1:05:02)***

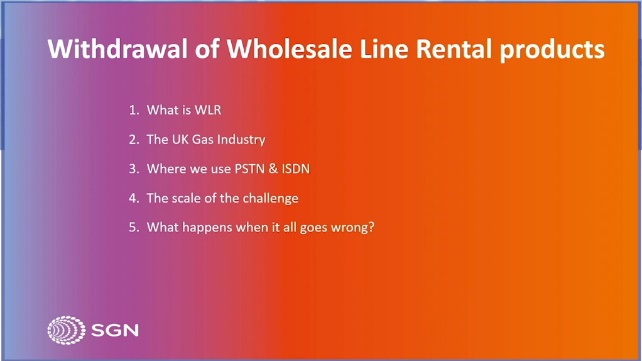
Patrick Bolton from the Irish Communications Regulator (ComReg) provided the seminar with a unique insight into how they have secured a pathway to facilitate ‘Smart Grid’ developments and the ‘net zero’ agenda in Ireland. To this end Patrick explained the approach / thinking behind the targeted regulatory intervention of spectrum release to enable facilitate ‘Smart Grid’ developments in Ireland. In particular he summarised the very robust and rigorous appraisal that resulted in ComReg and the Irish Government establishing a regulatory intervention that addressed the critical importance of targeted spectrum access for the Irish Energy Sector.

***Session 2 The Industry Perspective, Challenges & Solutions***

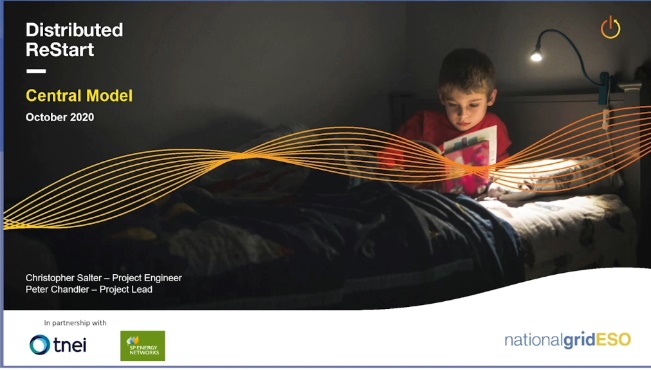
The second session was an opportunity to hear from Network Operators and the vendor community on market developments and how the industry is seeking to deliver ‘Digitalisation and the Net Zero Agenda’

[](https://www.youtube.com/watch?v=JDilA5DLQDA)***Developments at WPD to address an increasingly complex demand and supply dynamic*** [**[** **Presentation]**](https://www.jrc.co.uk/assets/files/WPD%20Slides%20for%20JRC%20Event%20v1-2%20Oct%202020.pdf)

First up was Roger Hey from Western Power Distribution who provided an insight into the developments at WPD to facilitate Low Carbon Technologies (LCTs), e.g. Distributed Energy Resources and Electric Vehicles. He noted that to address the increasing demands being placed on the operational integrity of the Electricity Networks by LCTs WPD have sought to align their Operational Strategy with the increased ability to Monitor and Control network assets and in so doing acknowledge that enhancements to Information and communications technology have been and will continue to be a key enabler of such developments. He emphasised that access to robust and real-time Data of network / asset performance enabled by robust and resilient Telecommunications systems that are ubiquitous is core to the Network Operators objectives of increasing operational efficiency and maximising the potential to leverage LCTs such as Distributed Energy Resources and in so doing serve the increasing demand for EVs and Heat Pumps. With the increased importance of real-time data informing responses by the network it was also highlighted that Cybersecurity is becoming and increasingly important aspect in maintain operational integrity and a significant focus is now being placed on ensuring that systems and operational practices are appropriately Cyber Secure working with the relevant Government Agencies. Overall it was fascinating to understand the actions underway to enable the ‘Net Zero Agenda through digitalisation’ and in particular the growing importance of enhanced Operational Telecommunications in enabling real-time data flows to support the monitoring and control response necessary to deliver a more dynamic energy supply solution.

[](https://www.youtube.com/watch?v=8ge5hXzOAGo)***SGN and the Challenges posed by PSTN Withdrawal*** [**[** **Presentation]**](https://www.jrc.co.uk/assets/files/The%20SGN%20Perspective%20v5.pdf)

Our second set of speakers were from Scotia Gas Networks (SGN) and they explored the challenges being presented by the planned withdrawal of the legacy fixed line telephone service provided by Openreach. This infrastructure is utilised by the gas network operators to monitor and control operational network assets across the UK and these Telemetry systems ensure the operational integrity of the Gas networks and the dependable supply of Gas to consumers. In the context of the Net Zero Agenda and Digitalisation the planned withdrawal of the PSTN solution is requiring the Energy Network operators to establish alternative solutions that are capable of facilitating operational data and respond to control prompts in remote locations. Furthermore, in the context of Gas networks[[1]](#footnote-1) it was noted that one of the attributes of the PSTN solution which is proving difficult to replicate is the resilient power that accompanies a PSTN circuit and is not available via the alternative fibre based solutions. Overall, the PSTN withdrawal process further emphasises the increasing importance of resilient and robust operational telecommunications solutions to ensure the efficient and safe supply of energy to UK Consumers. Furthermore, SGN emphasised the significant disruption and investment that will be required to secure the operational integrity of the Energy Networks over the long term.

[](https://www.youtube.com/watch?v=tc1rDdLcrNk)***Distributed ReStart and the Central Model*** [**[** **Presentation]**](https://www.jrc.co.uk/assets/files/central%20model%20-%20JRC%20conference%2015.10.20.pdf)

[](https://www.youtube.com/watch?v=LoZJUu5prAQ)Chris Salter was third up from the Distributed ReStart Project and he offered an update on the latest thinking from this project which is seeking to establish an operational approach to the use of Distributed Energy Resources (DER) to restart the Energy Networks in the event of a National or Regional power outage. In particular, he noted the logistical / operational complexity of co-ordinating a significant number of dispersed assets predominantly connected to the Distribution Operators’ Networks. Core to enabling such an approach is the establishment of robust and resilient systems and communications capability to remotely dispatch DERs both via manual and manual methods based on a carefully orchestrated plan co-ordinated between National Grid Electricity System Operator and the relevant Distribution Network Operators – the approach being adopted is the Central Model. Through this innovative project NGESO alongside SPEN are establishing an approach whereby DERS will be able to support Black Start requirements and in so doing secure a pathway to a Net Zero Black Start solution whilst recognising the critical role of enhanced communications capability will have in enabling such a solution.

***Embracing the Low Carbon Future and the importance responsive Operational Telecommunications capability to respond in real-time to demand and supply imbalances across Energy networks*** [**[** **Presentation]**](https://www.jrc.co.uk/assets/files/JRC%20-%20Annual%20Seminar%2015th%20Oct%201.0p1nn.pdf)

Nokia offered a detailed insight into the need for enhanced operational telecommunications capability to be embedded alongside the Energy Distribution Networks to facilitate the ‘Net Zero Future.’ In particular it was noted that the increase in the number and diversity of generation sources connected at the Distribution layer will be dependent on a much more responsive control system that is more sensitive and responsive to network supply and demand changes and hence an Operational Telecommunications system that is more dynamic and responsive than existing solutions will be necessary – without such a development the Net Zero Future will not be realised.

**Thought Piece: Nigel Nawacki, Energy / Utilities Operational Sales CTO EMEA Nokia**

This year the JRC 2020 seminar offered a view from Policy Makers and Industry towards policy that enables the NetZero grid.   It was an honour to have provided an insight into how operational telecommunications capability has an increasing role in the monitoring and control of grid assets. The co-ordination / administration of increased renewables as a connected system was key. The connectivity of new grid supply and Electric Vehicles needs to be supported by telecom systems in a stable supply / demand “system” context. This is equally applicable to Gas, Water and Power transmission or distribution. To this end it is worth reflecting on the ‘smart energy blind spot,’ <https://networks.online/gas/the-smart-energy-blind-spot/> ,and the importance of enabling appropriate Policy interventions to facilitate the right operational control.   Net-Zero will not be delivered without Spectrum Access and enabling systems in Operational Telecommunications based on Industrial 3GPP Wireless. This is to provide the scale and to provide an easy medium for alternatives to legacy Fixed Telecommunications where ageing copper systems are to be replaced.

****

1. Gas is an explosive material and Gas Network Operators have designed their monitoring and control capability tom minimise the risk posed by mains electricity [↑](#footnote-ref-1)